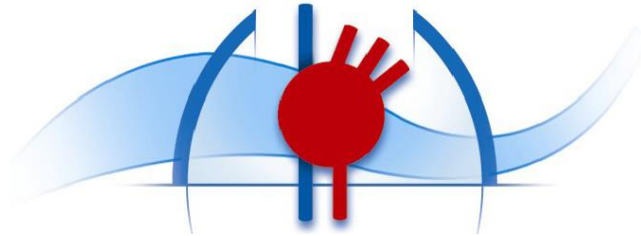


ETO bidimensionnelle normale



l'institut du thorax

Matériel utilisé

- Manche : molettes et boutons de modification du plan de coupe
- Tube flexible (9 mm - 1 m) – 5 MHz
- Extrémité : 10 à 15 mm
- Echo 2D et TM, doppler couleur, pulsé et continu, DTI



Séquence de l'examen

- Préparation
- Introduction
- Plans de coupe

Préparation du patient

- Recherche des contre-indications :
 - pathologie oesophagienne
 - irradiation médiastinale
 - pathologie cervicale sévère
 - instabilité hémodynamique ou respiratoire
- A jeun depuis > 4 heures
- Explication +++ de l'examen
- Anesthésie locale :
 - Gel de xylocaïne puis gargarisme au spray

Introduction

- Décubitus latéral gauche, tête fléchie
- Cale-dents, courbure antérieure de l'endoscope
- Introduction dans l'axe central, un doigt dans la bouche pour abaisser la langue
- Passage du voile du palais
- Résistance de la bouche oesophagienne
- Maintenir une légère pression en attendant un mouvement actif de déglutition
- Durée 10 minutes

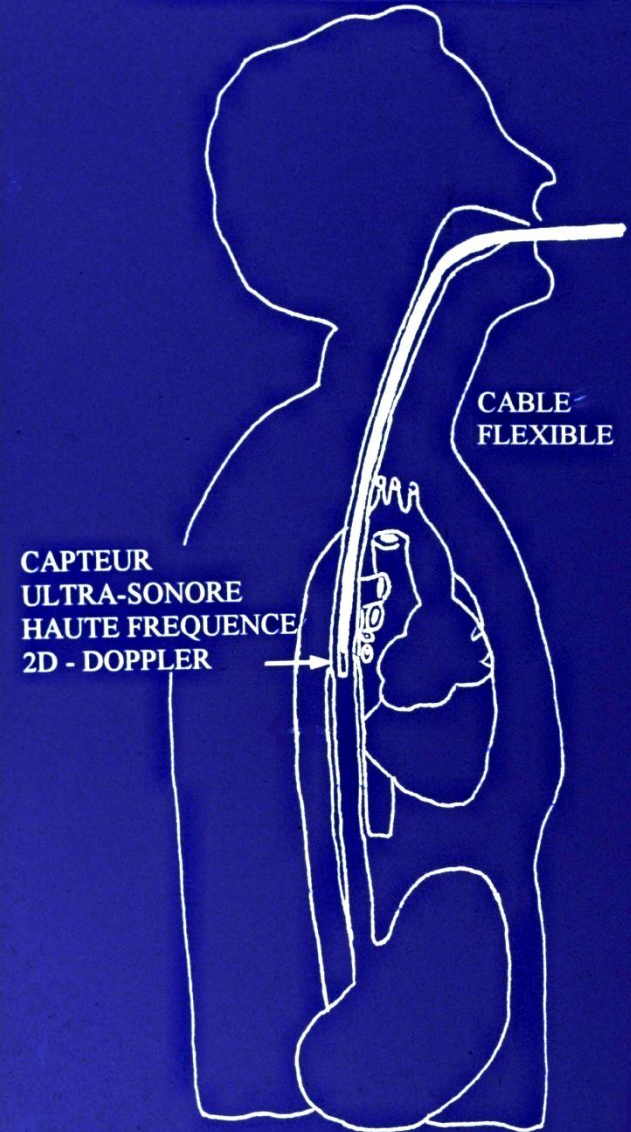
Introduction

- Echec : 1 à 2 %
- Incidents :
 - Décès < 0,01 %
 - Troubles digestifs, dysphagie transitoire
 - Troubles du rythme, HTA, malaise vagal
 - Perforation de l'œsophage, médiastinite

Introduction



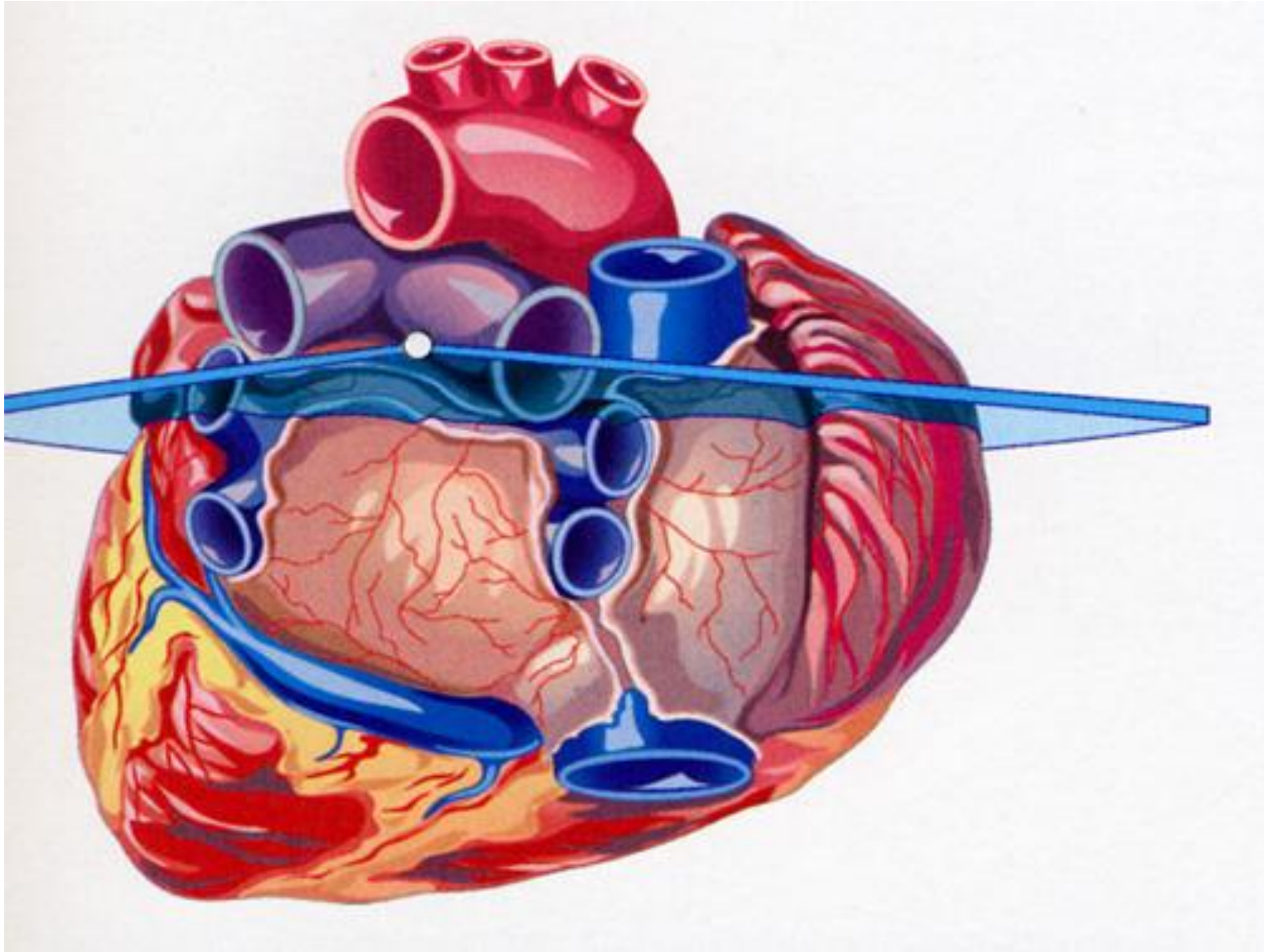
ECHOCARDIOGRAPHIE TRANSOESOPHAGIENNE



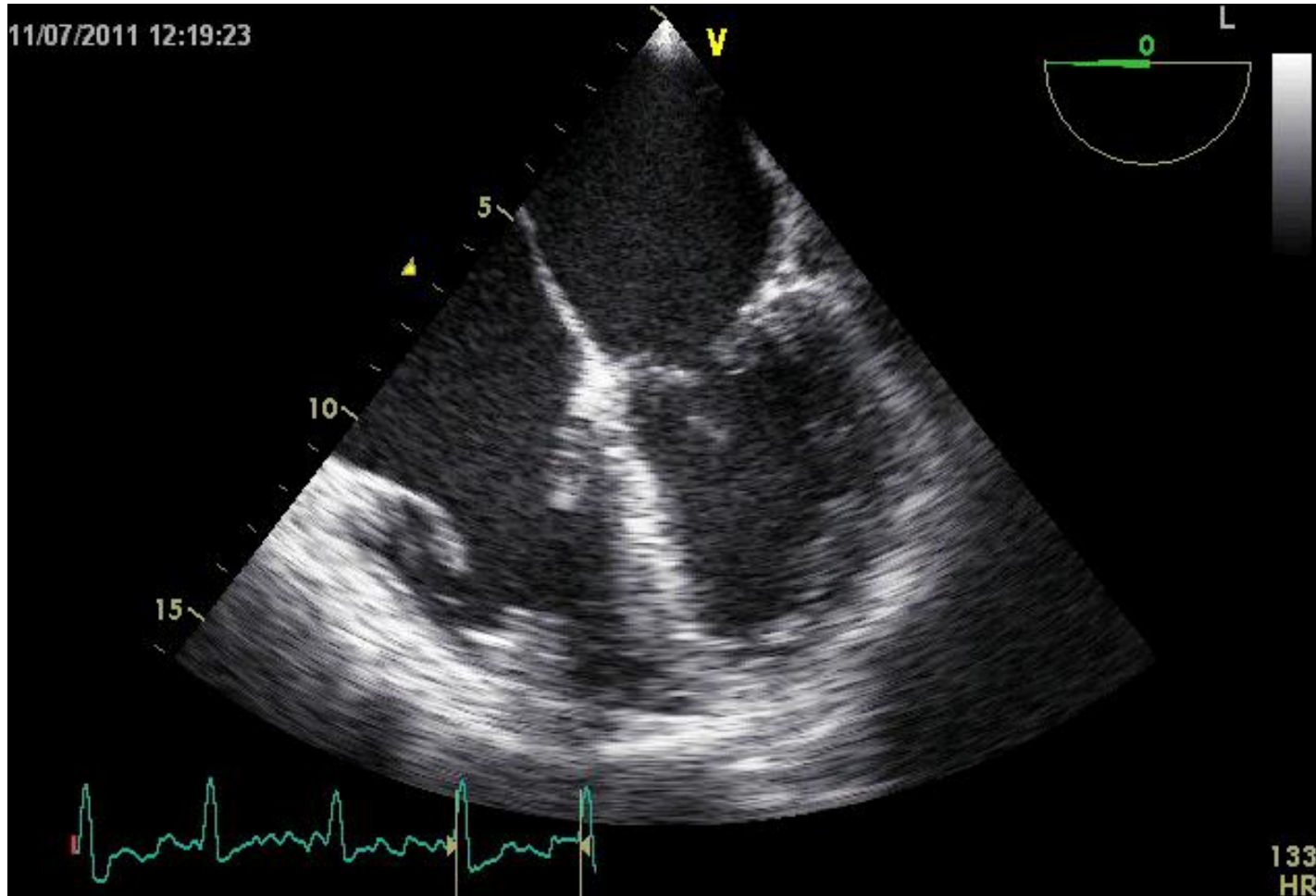
Plans de coupe

- Hauteur de la sonde :
 - Repère aorte/pulmonaire 0°
 - Repère valve aortique 0°
 - Repère 4 cavités 0°
 - Repère trans-gastrique
- Changement de plan de coupe par rotation électronique du capteur (0-180°)
- Rotation manuelle du manche (ajustements)
- Flexions antéro-postérieures (grosse molette) : trans-gastrique

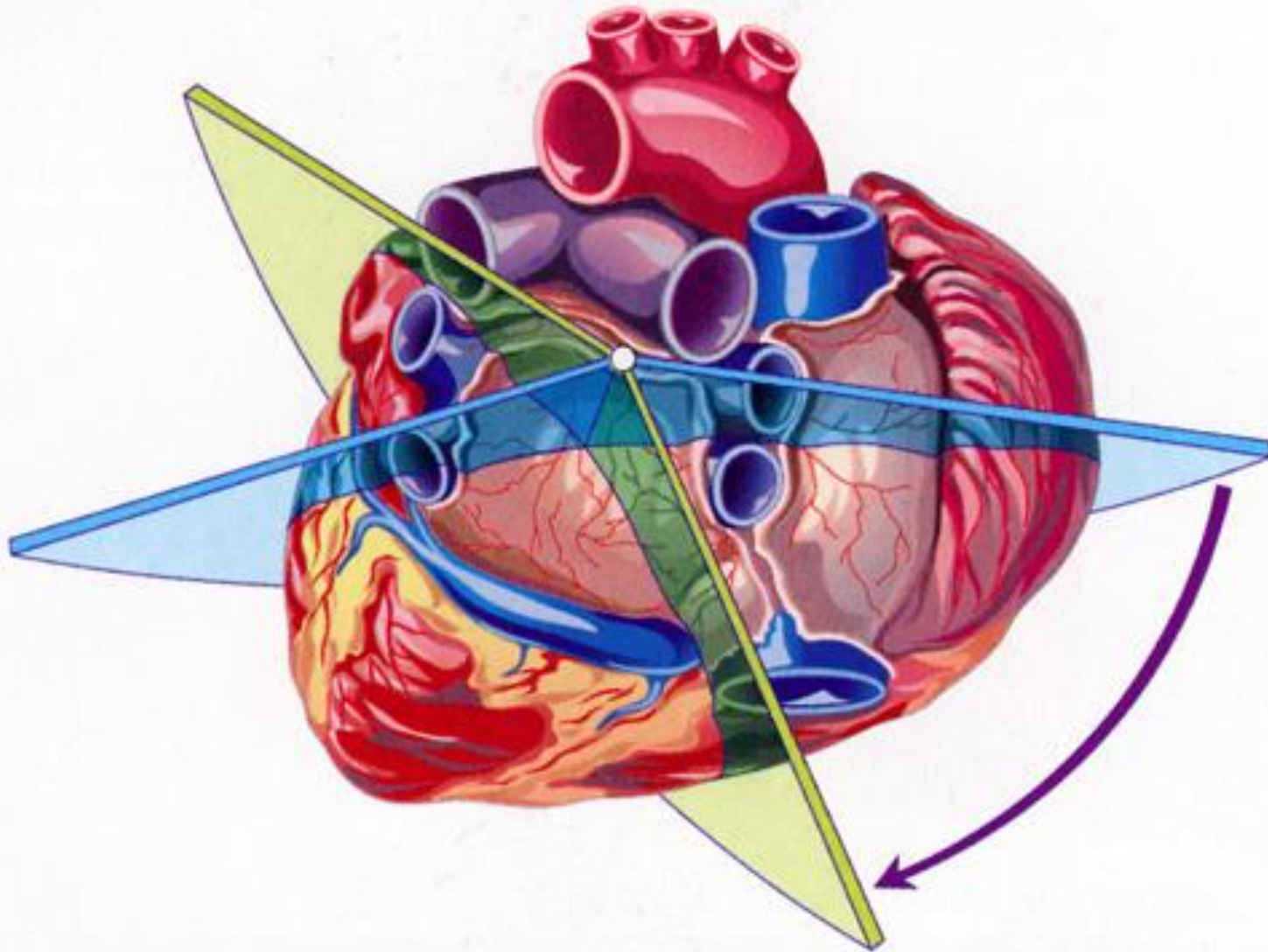
Plans de coupe



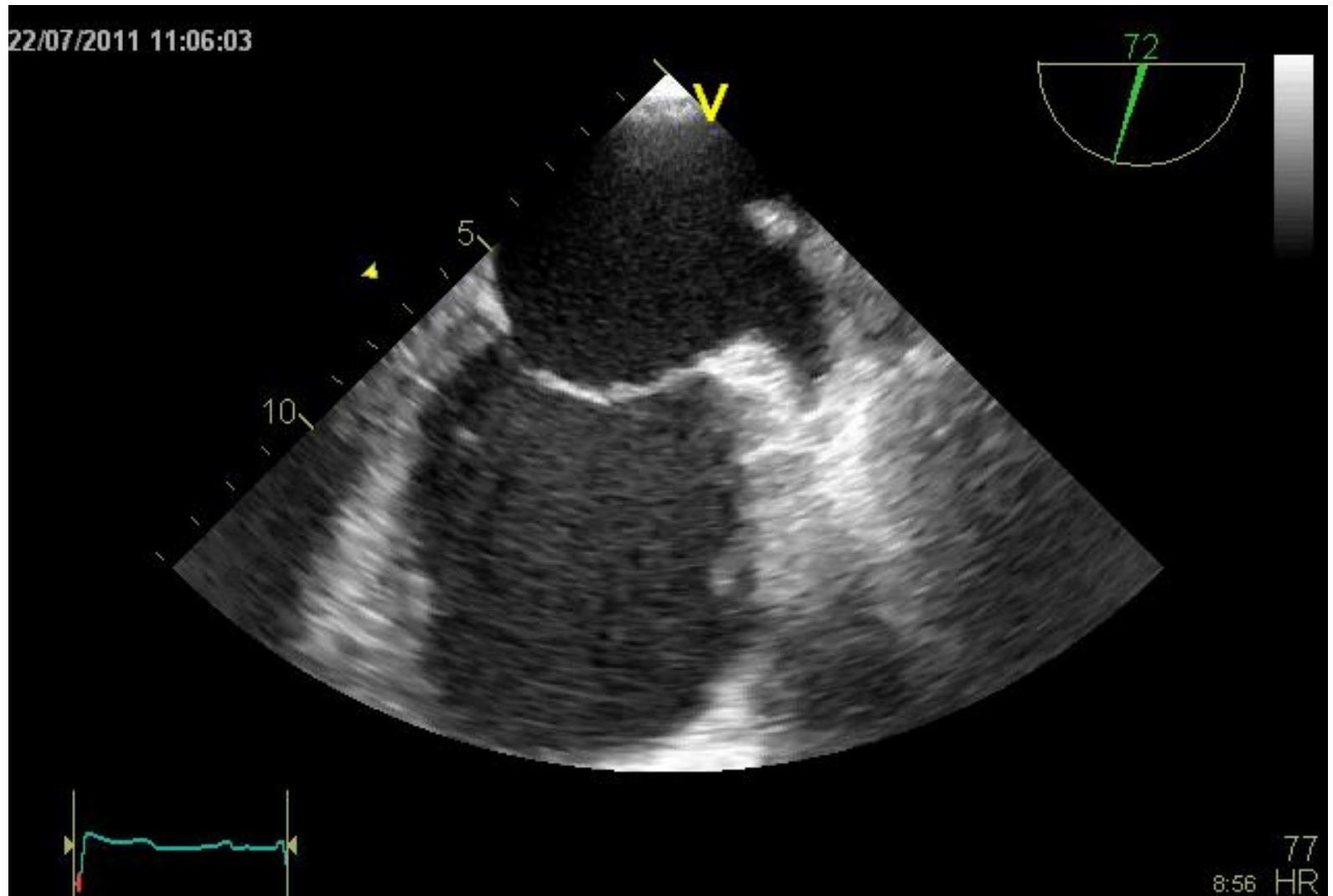
0° : « 4 cavités »



Plans de coupe



60°-90° : « 2 cavités »

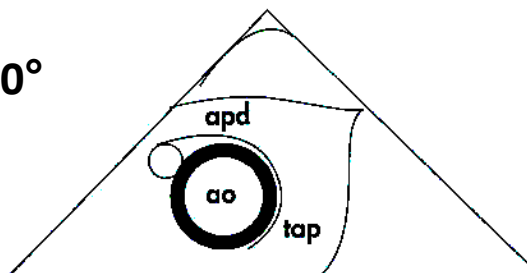


Coupes anatomiques normales

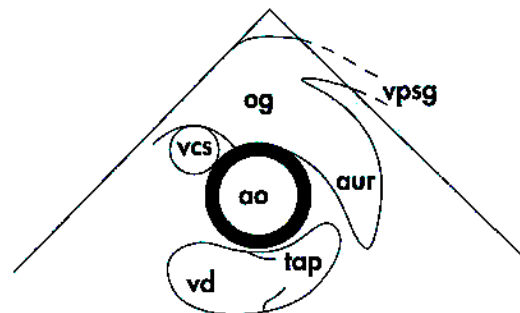
- Repère aorte/tronc pulmonaire 0°
- Repère 4 cavités/valve aortique 0°
- Repère trans-gastrique 0°

Repère aorte/ tronc pulmonaire

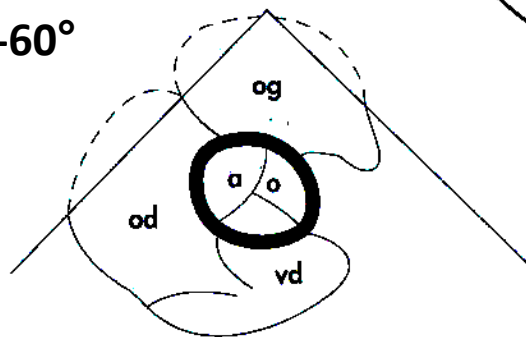
0°



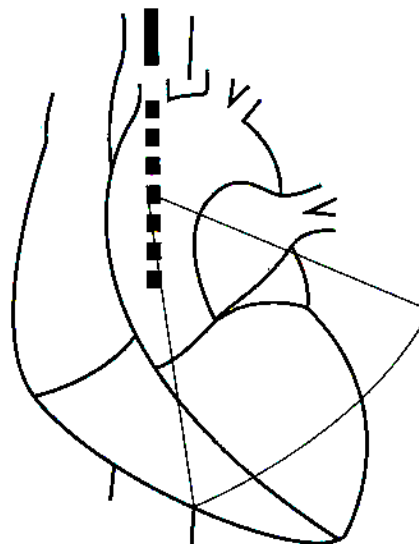
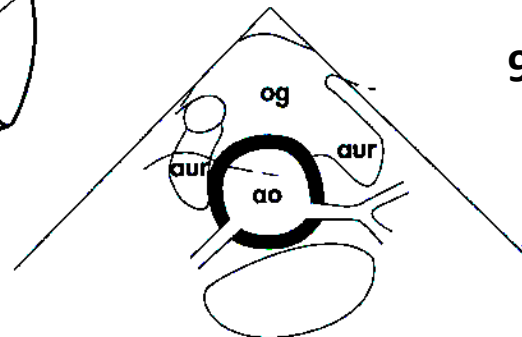
120-135°

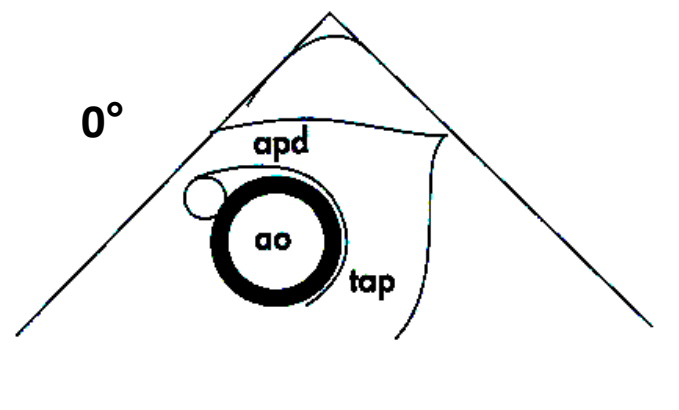


45-60°



90°





PHILIPS

SAUPIN

23/06/2009

10:05:10

ITm0.7 IM 1.1

57031020090623

T6H/ETO

CI 39Hz
14cm

C3

2D

64%

C 47

P Arrêt

HPén



- 0

- 5

X

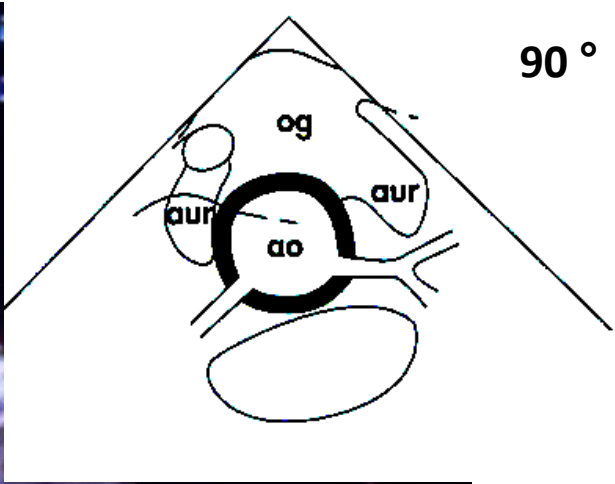
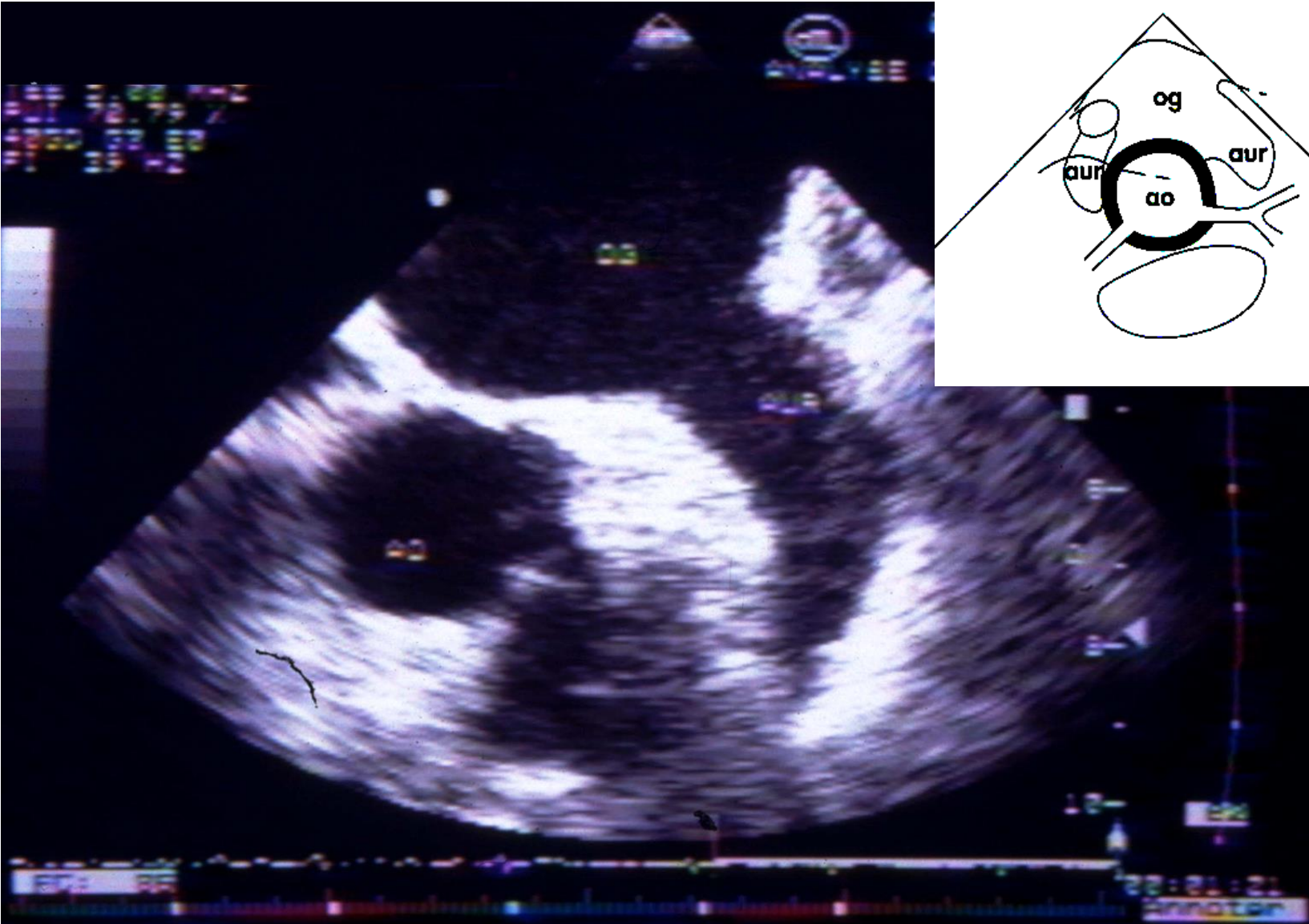
- 10

JPEG

*** bpm

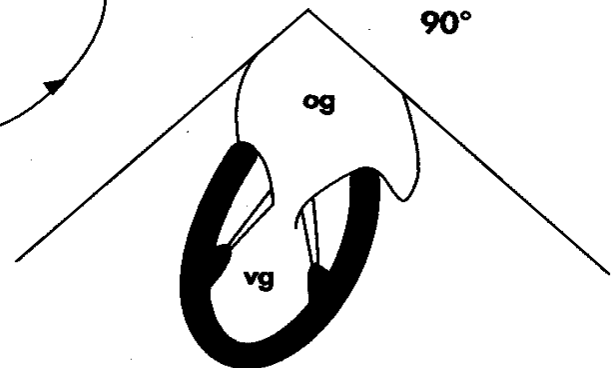
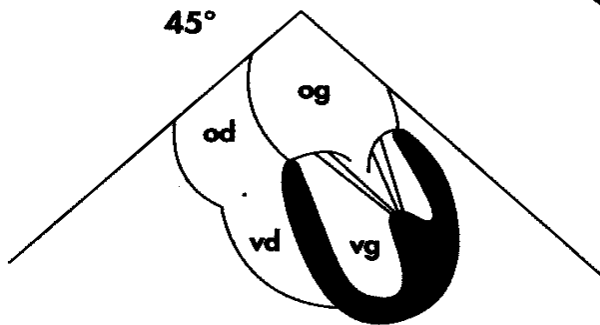
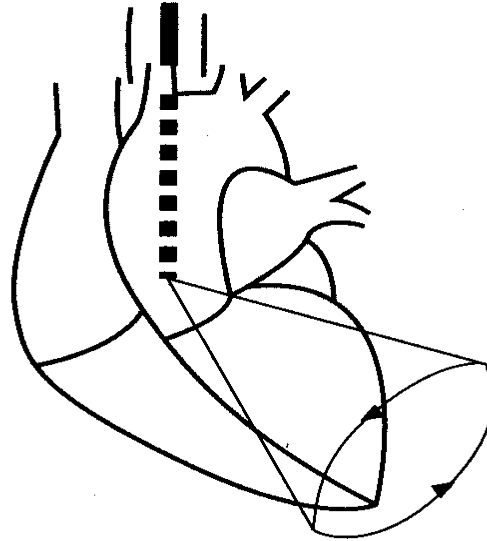
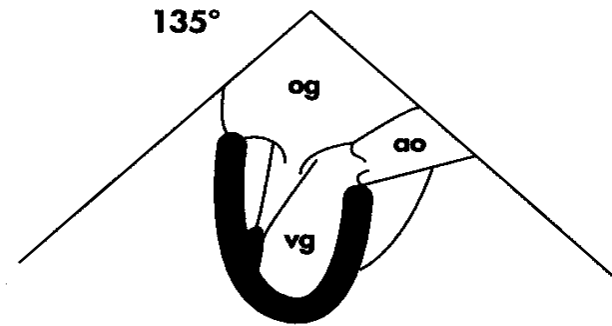
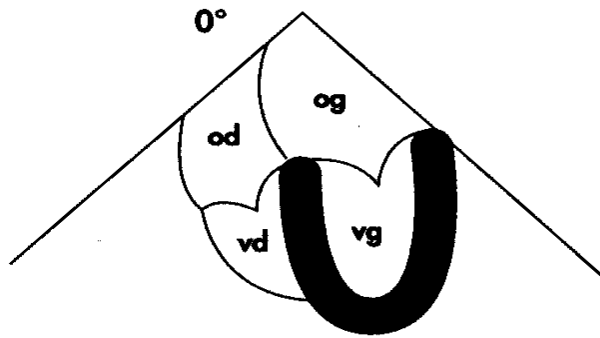
vd

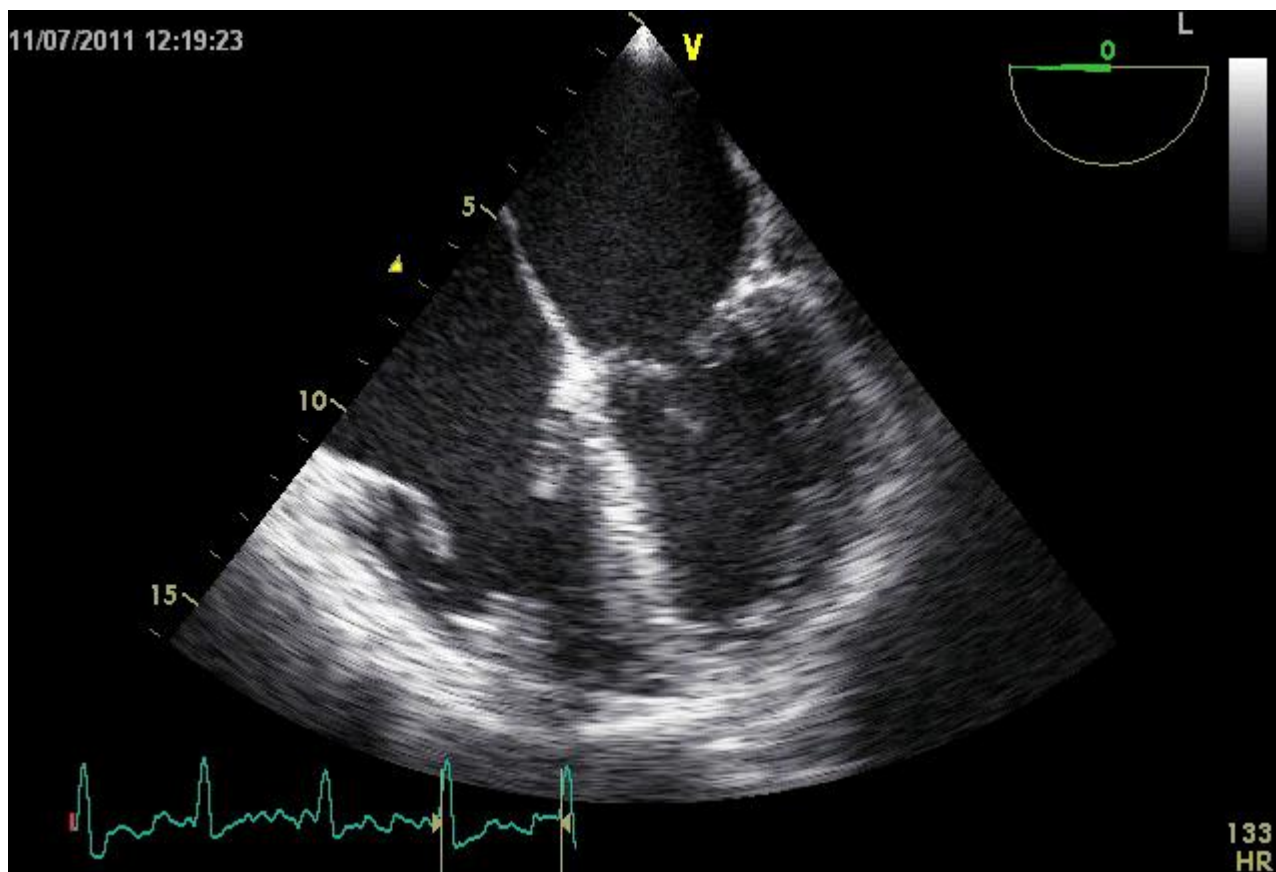
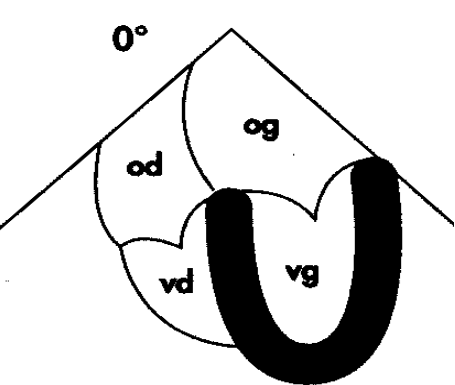
45-60 °

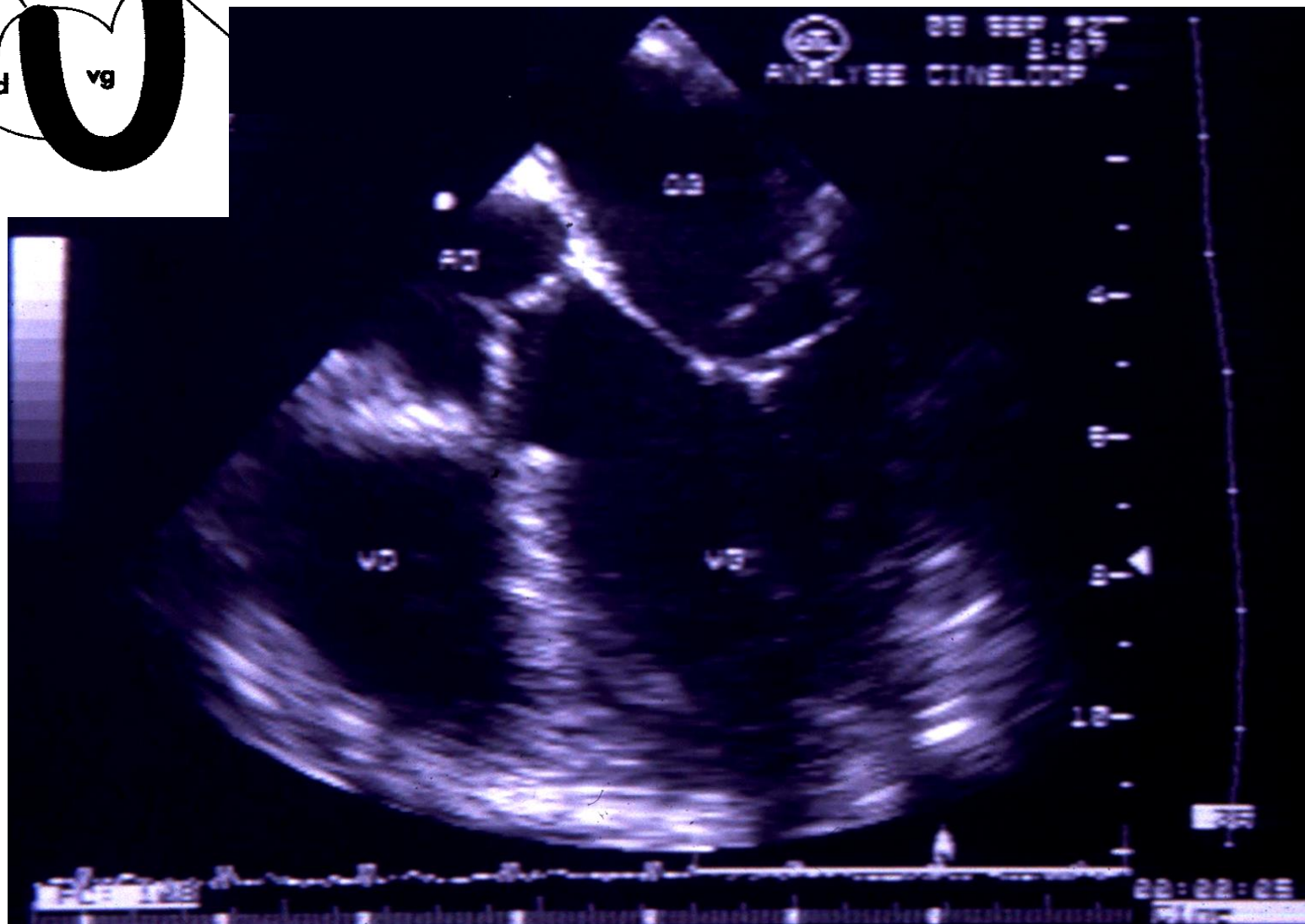
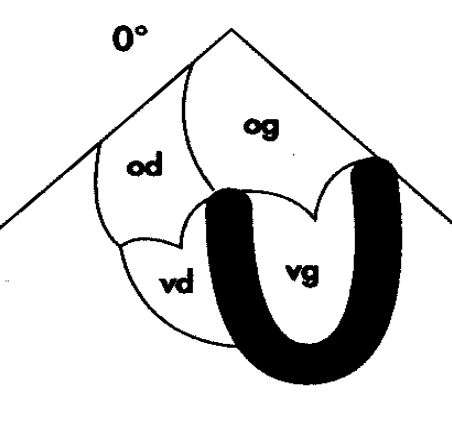


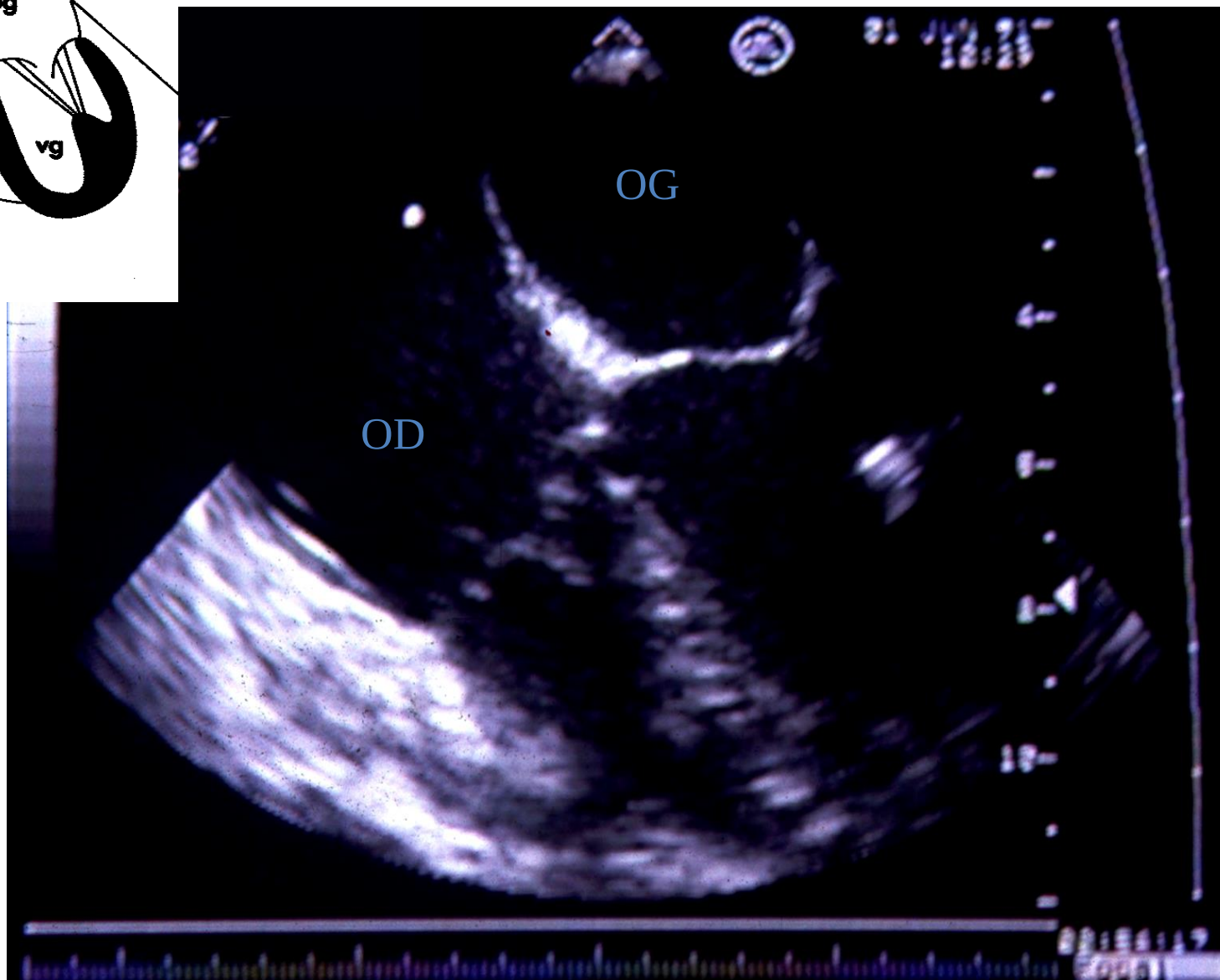
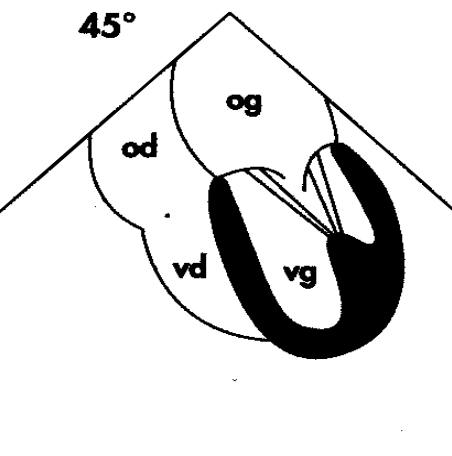
90 °

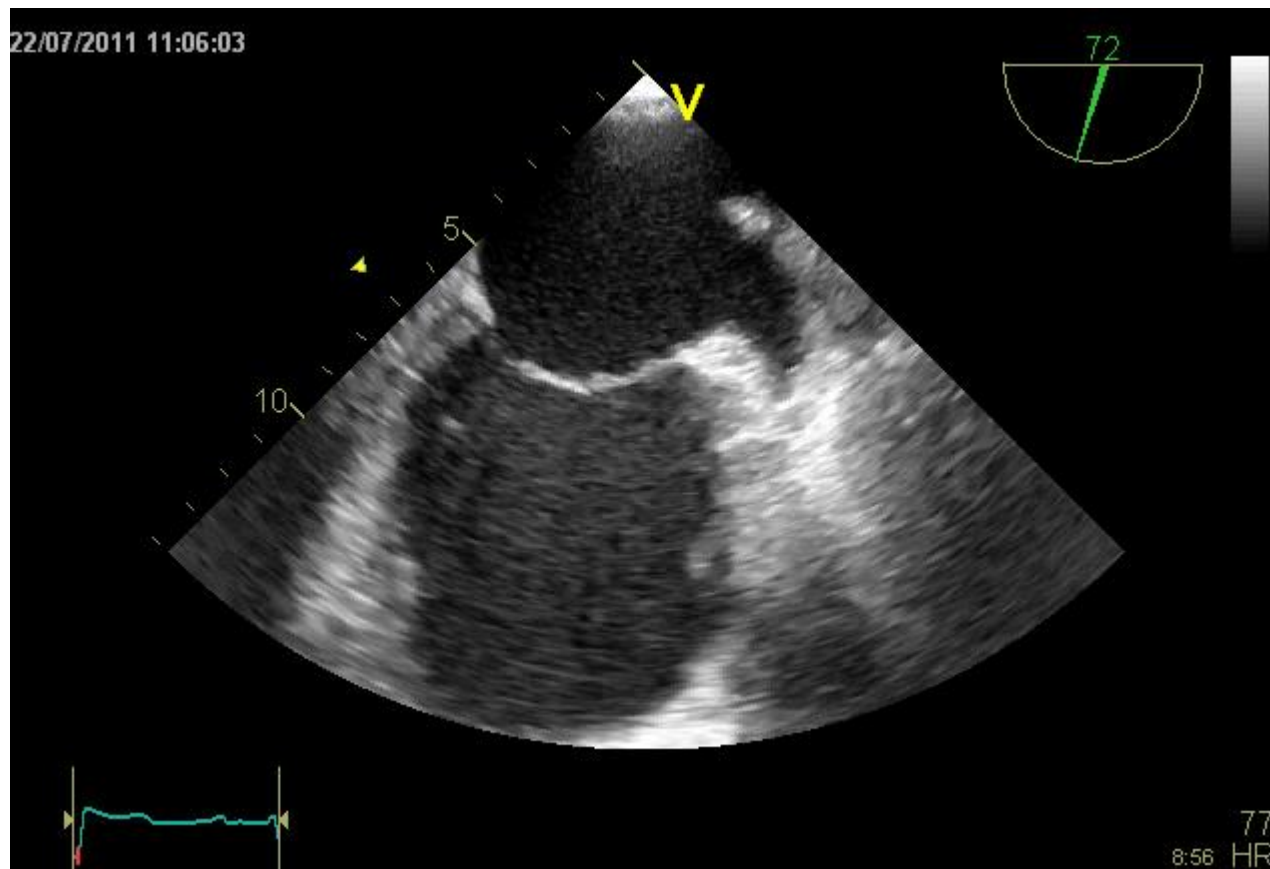
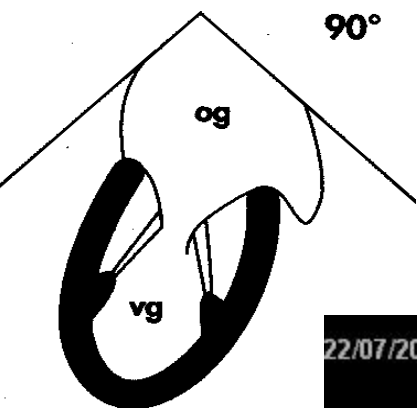
Repère valve aortique/4 cavités 0°



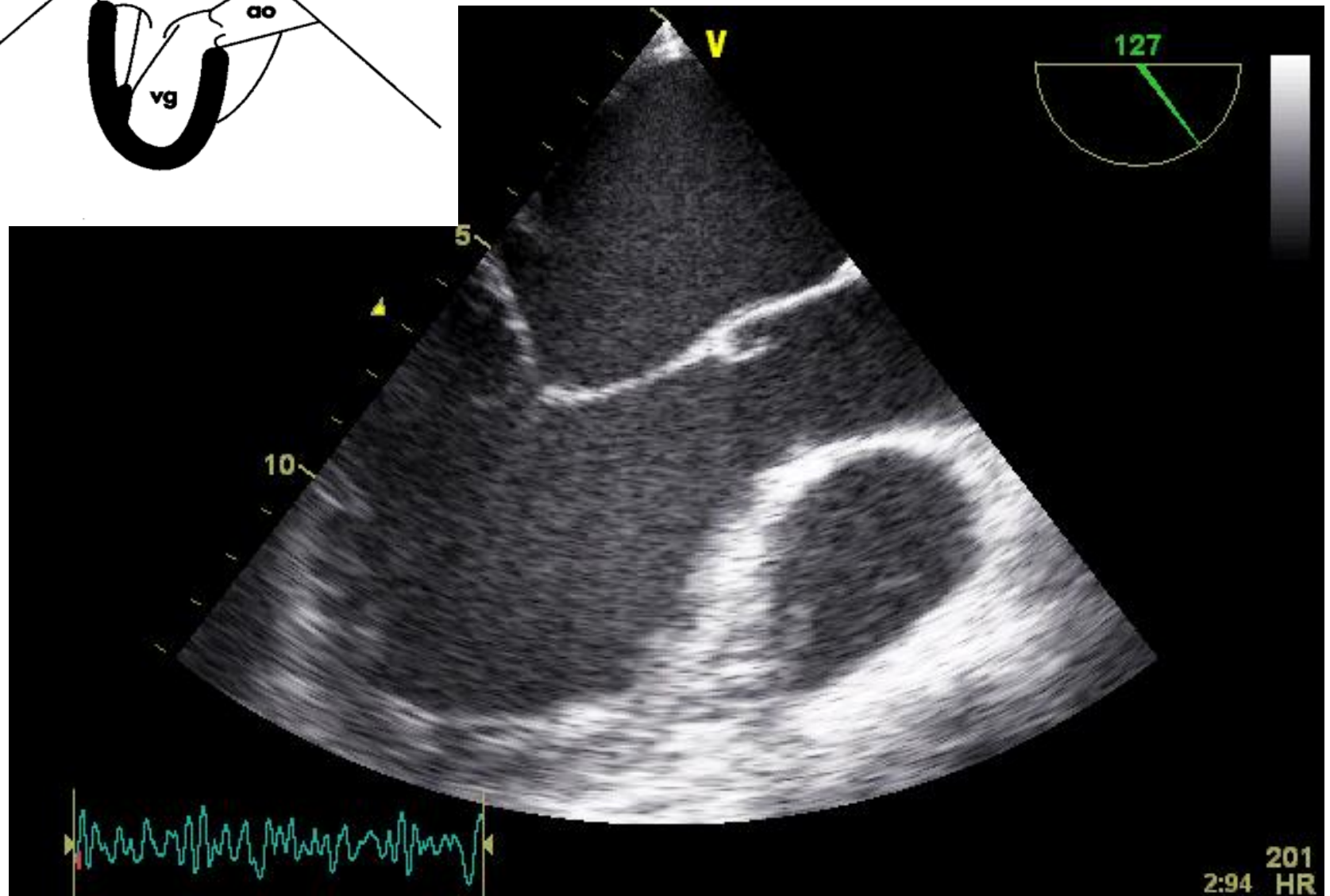
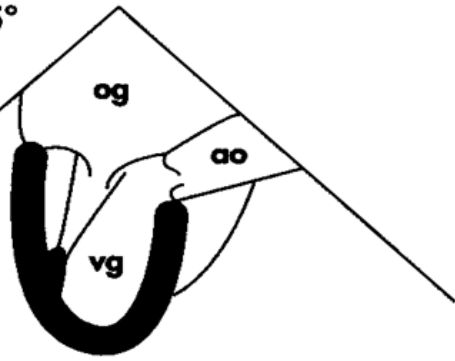




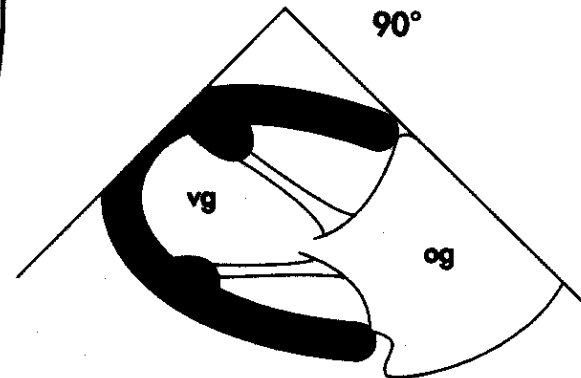
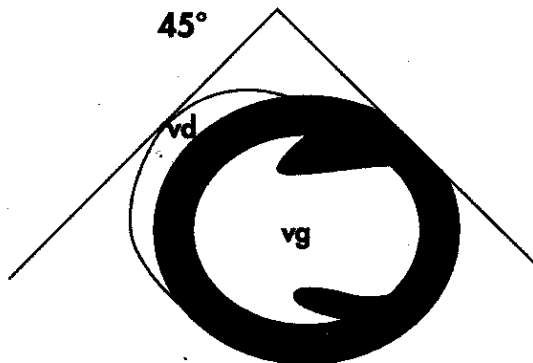
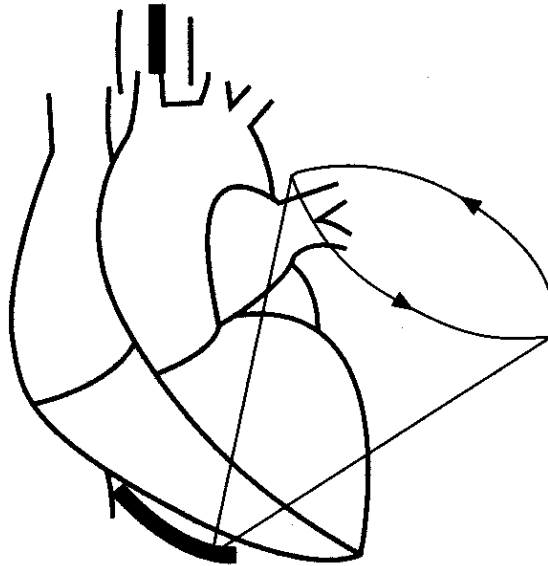
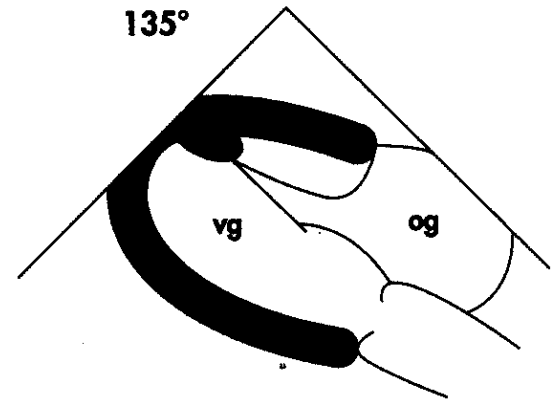
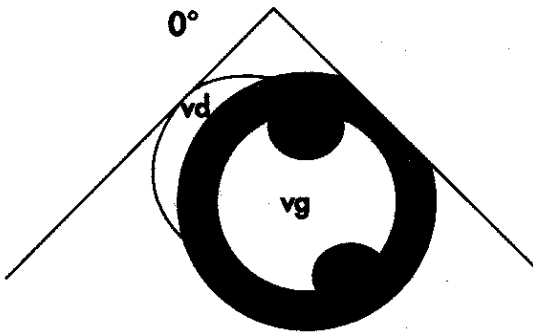


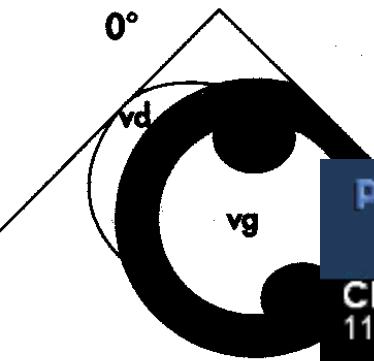


135°



Repère trans-gastrique 0°





PHILIPS

43141020090610

10/06/2009

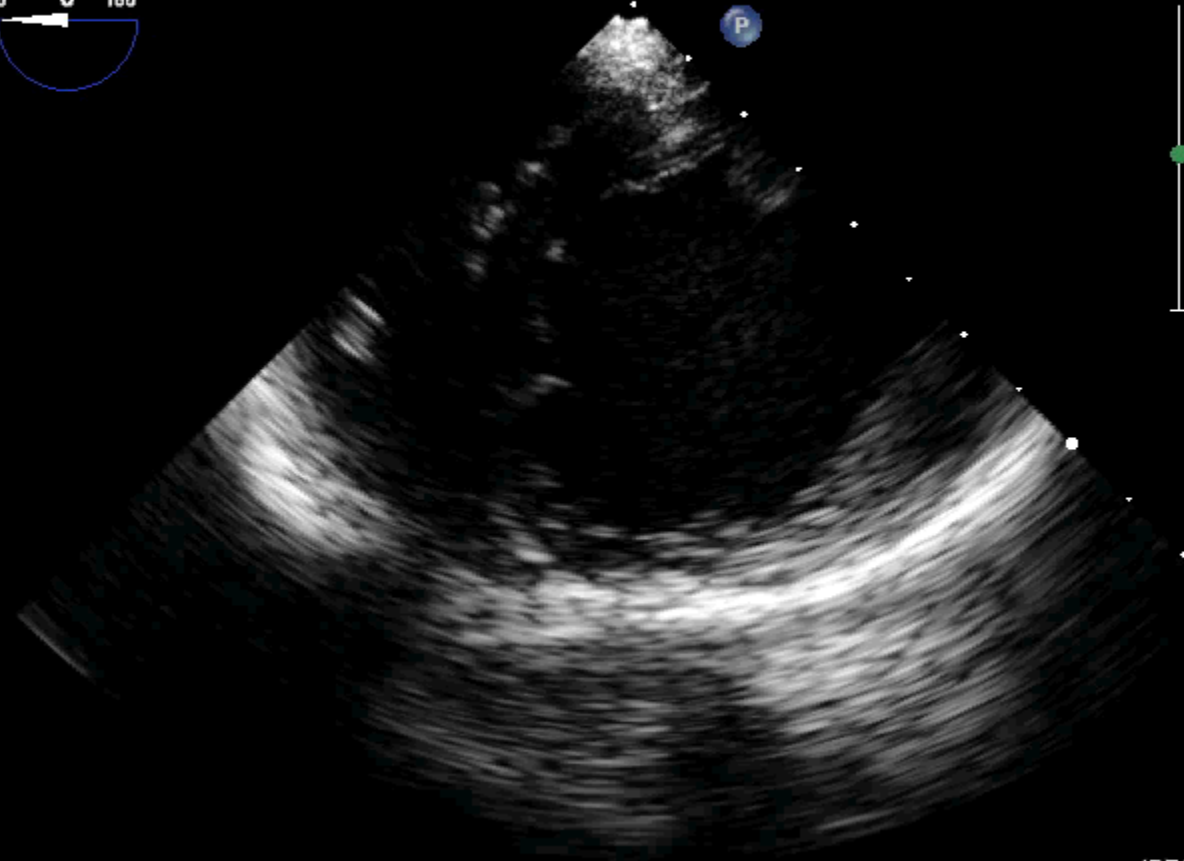
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ITm1.2 IM 0.9

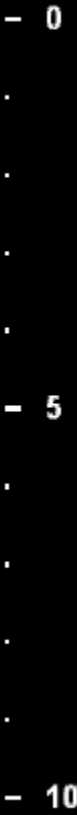
T6H/Adulte

CI 61Hz
11cm

2D
56%
C 50
P Arrêt
Gén

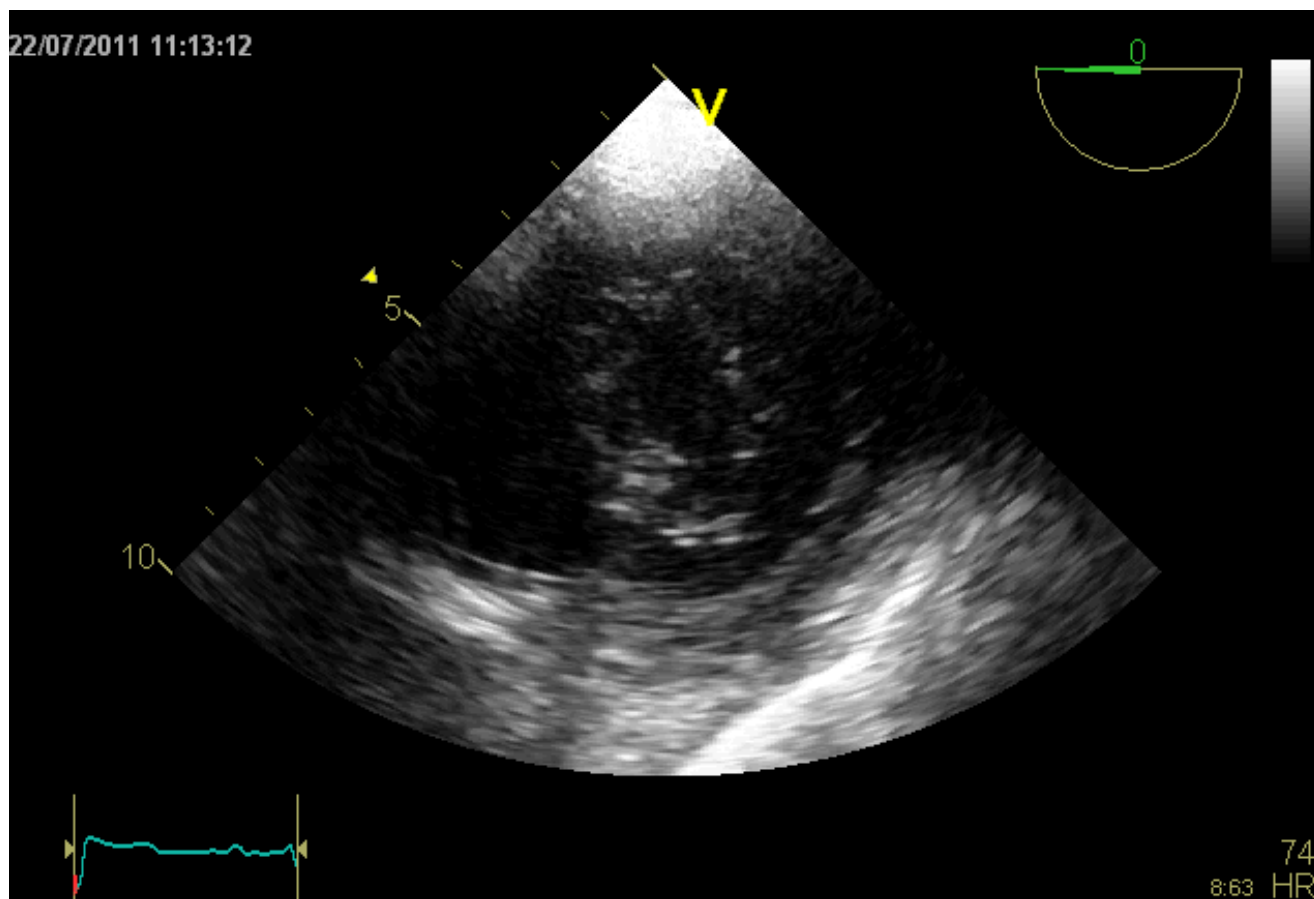
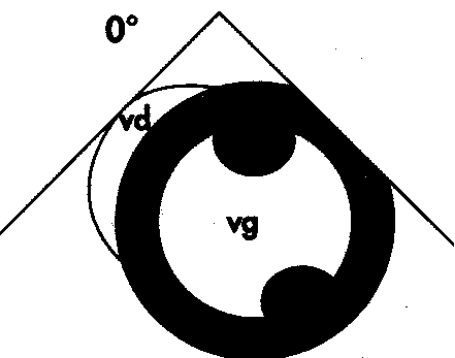


C3

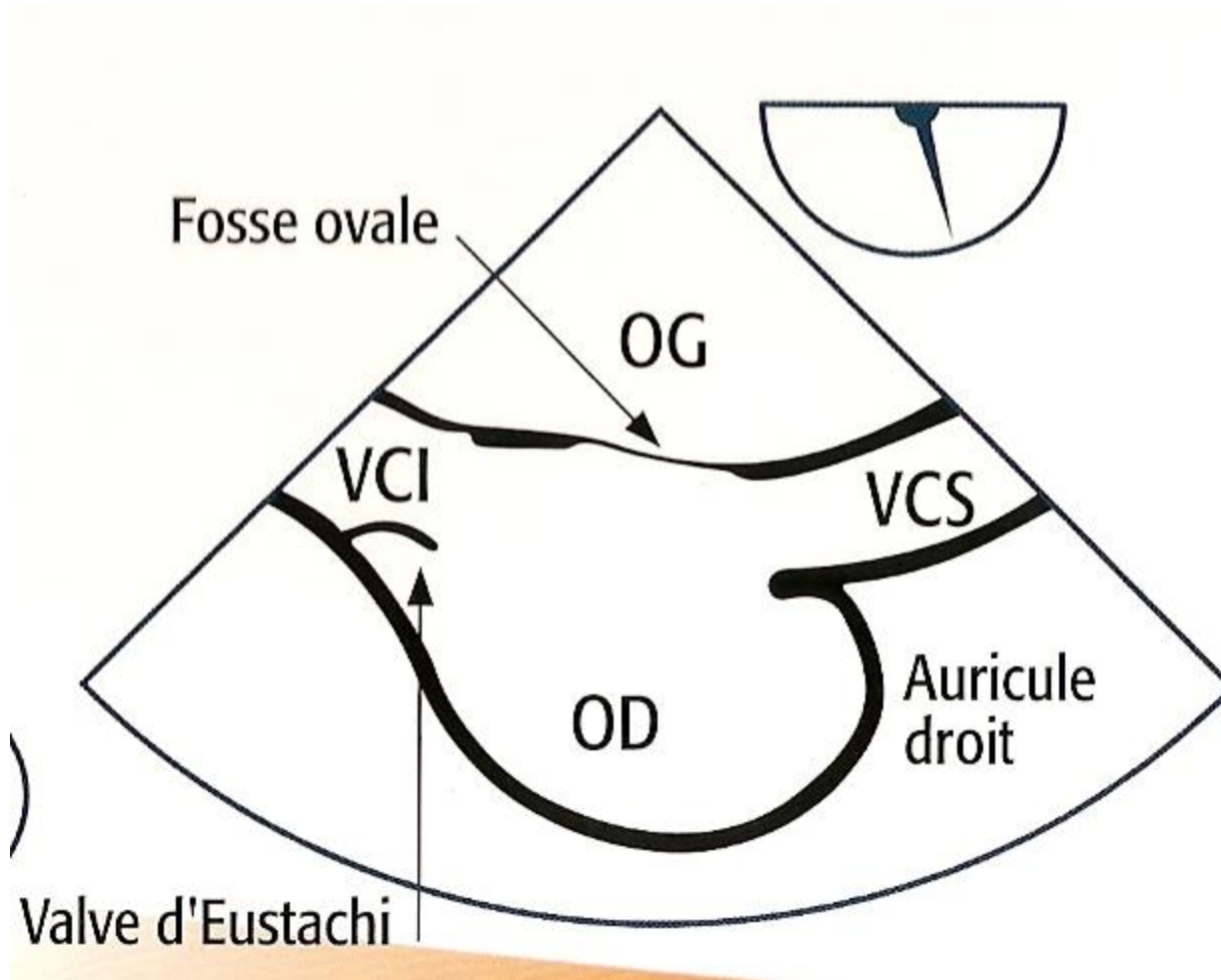


JPEG

*** bpm



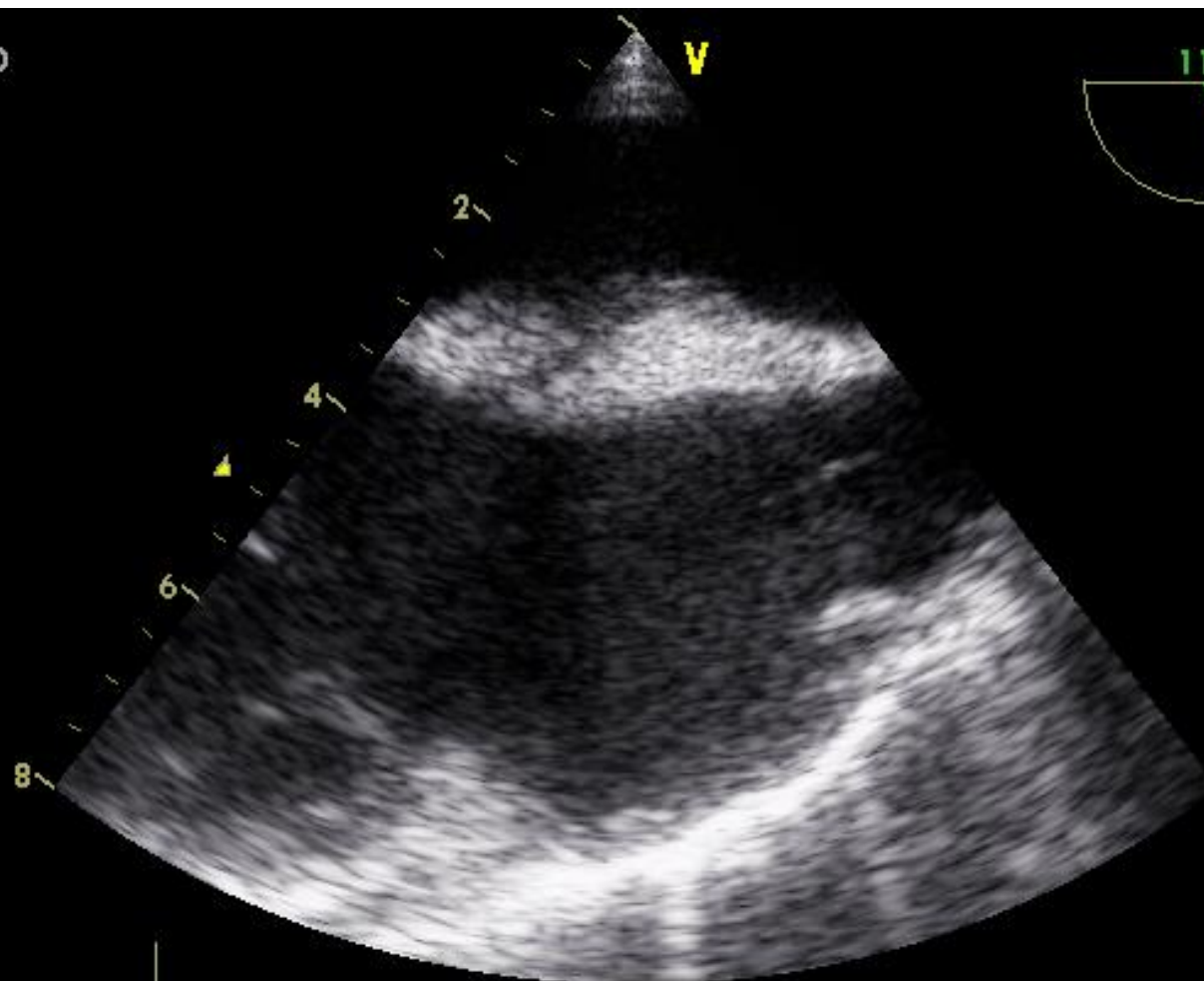
Coupe des 2 veines caves



13:04:10

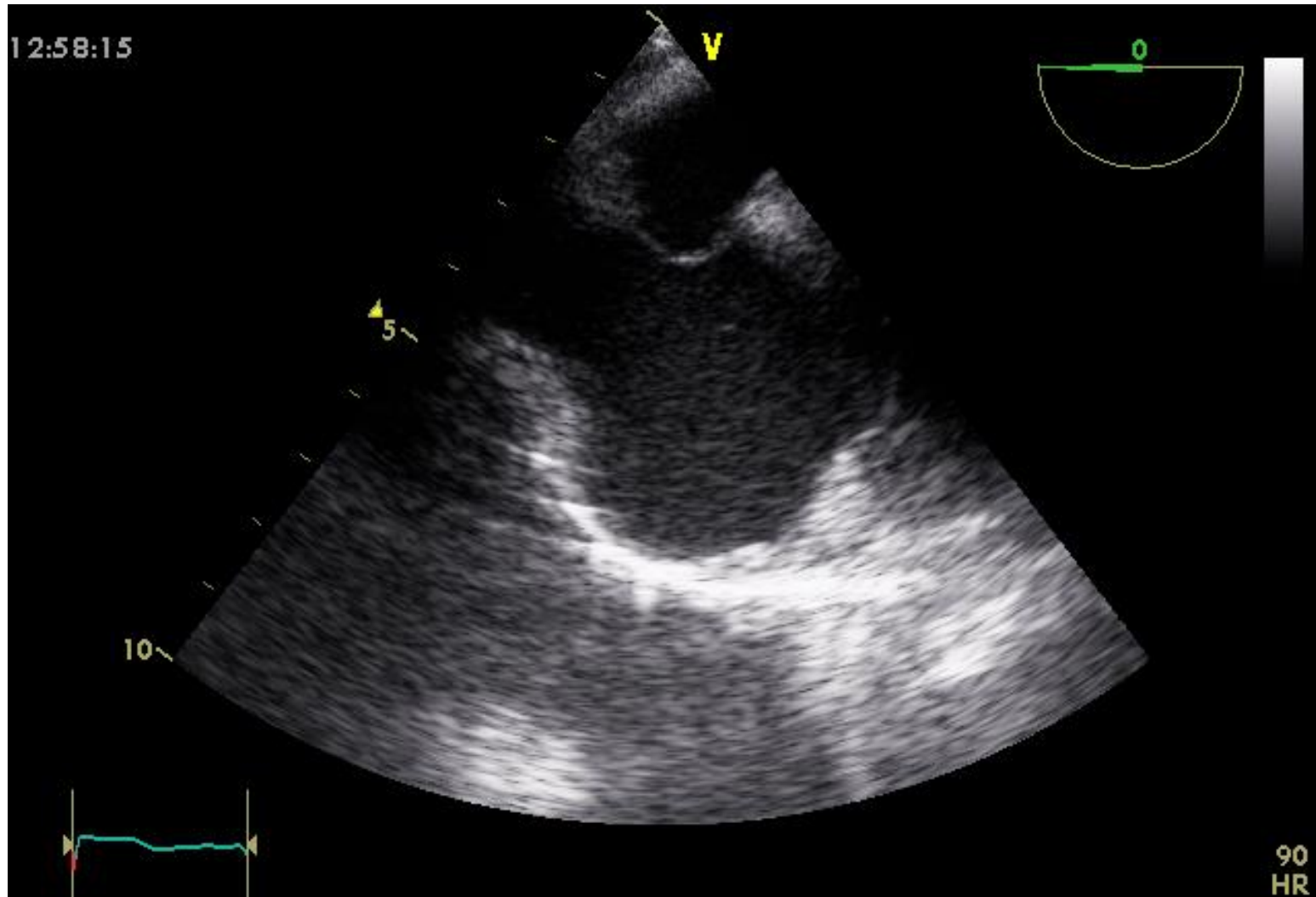
V

118



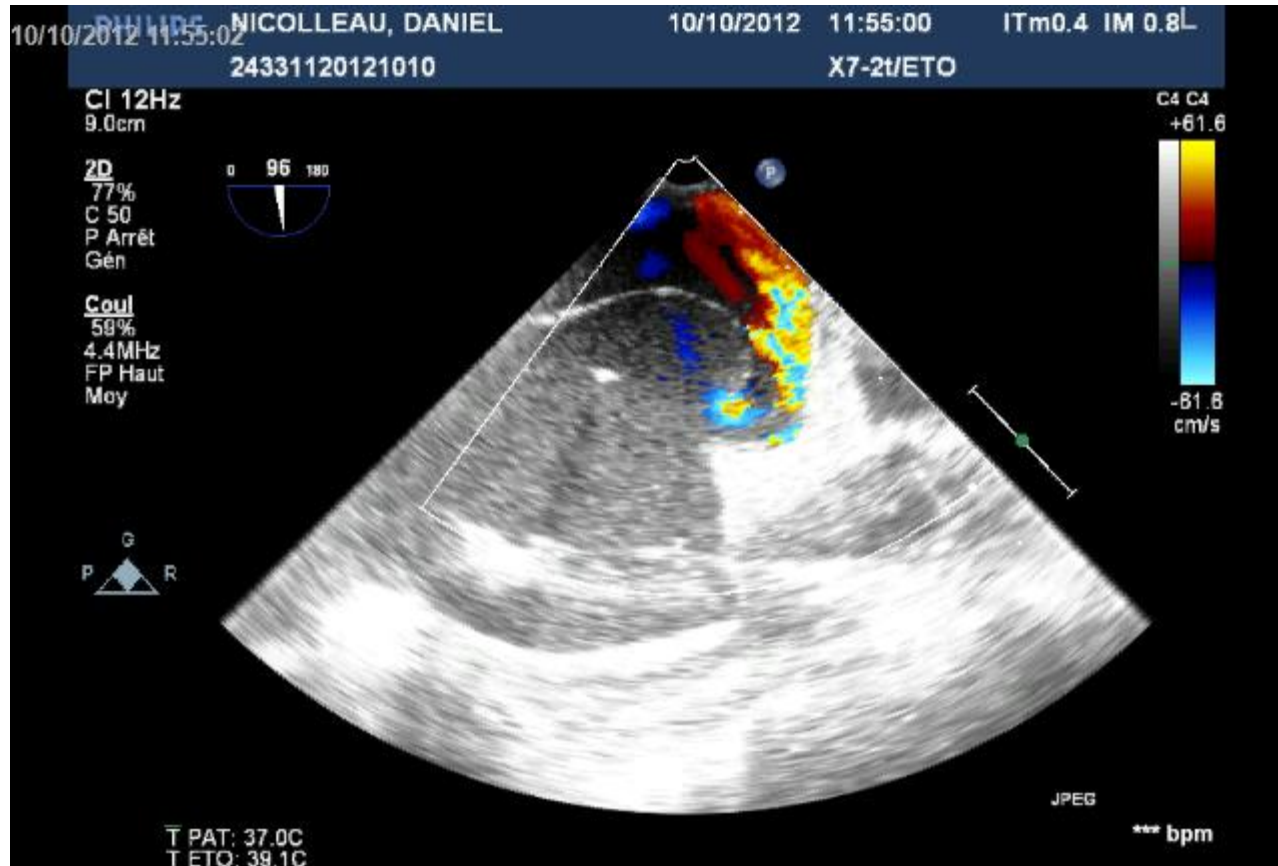
89
HR

Coupe du septum inter-auriculaire



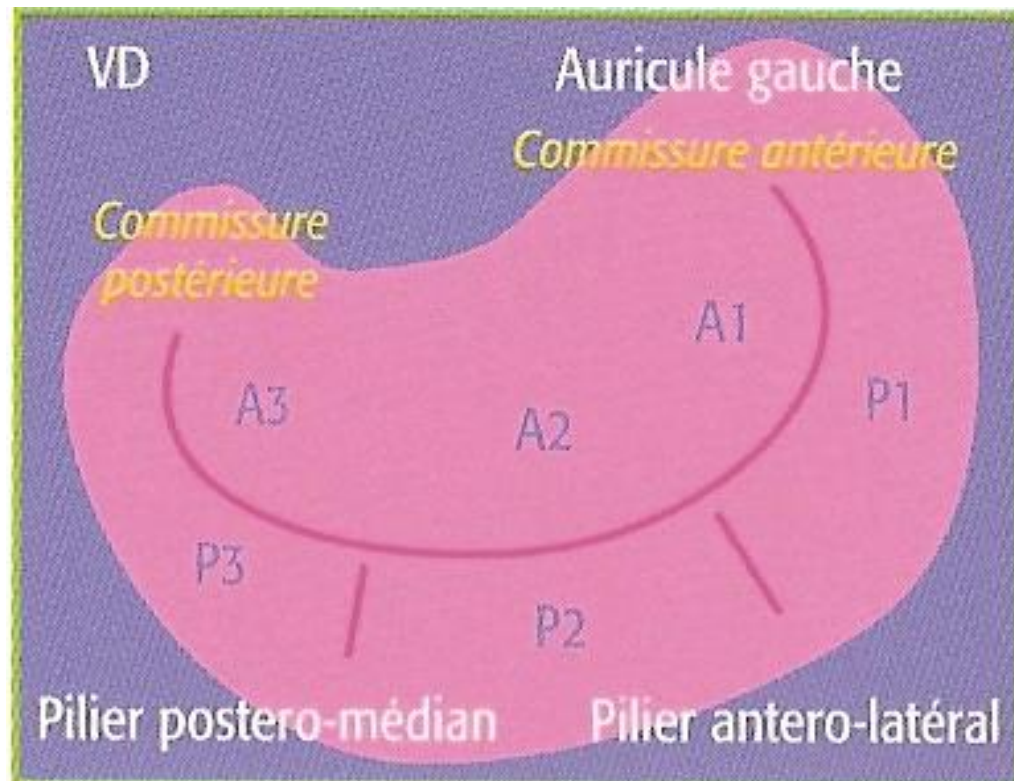




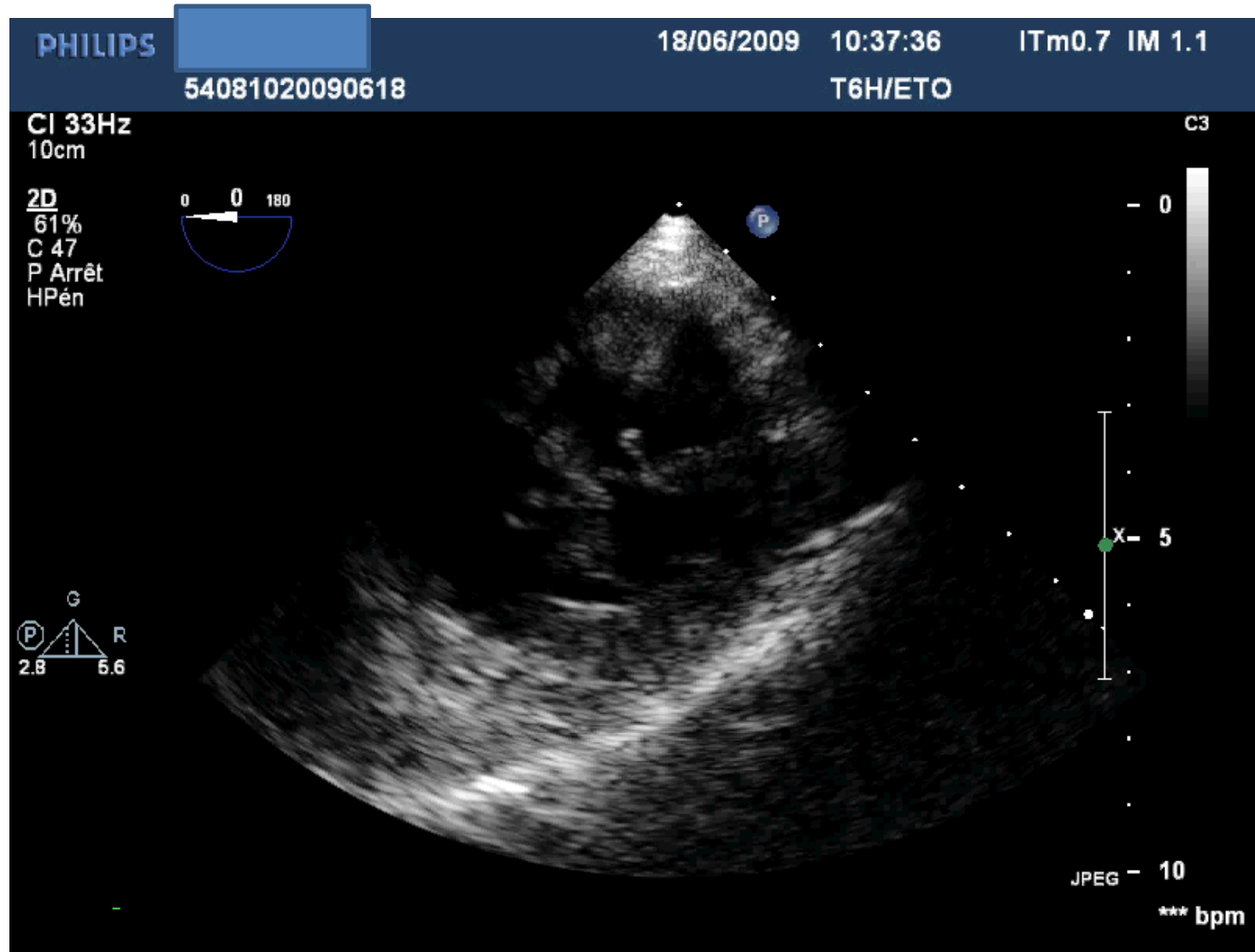


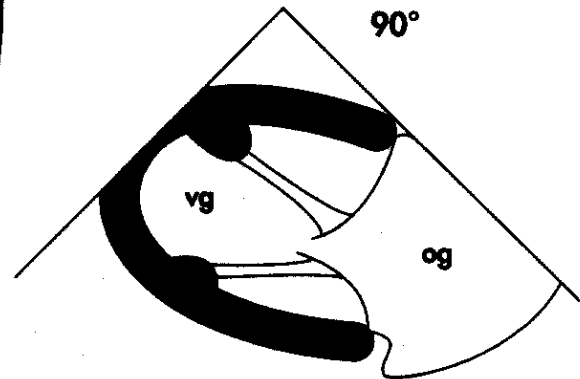
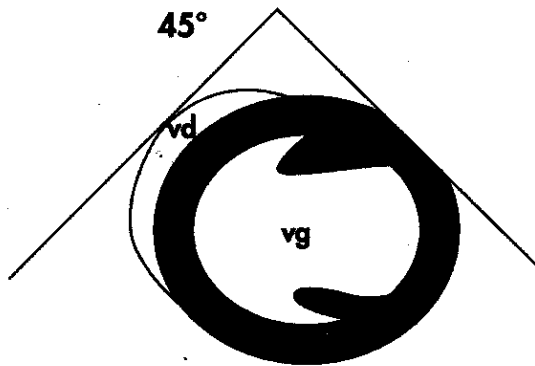
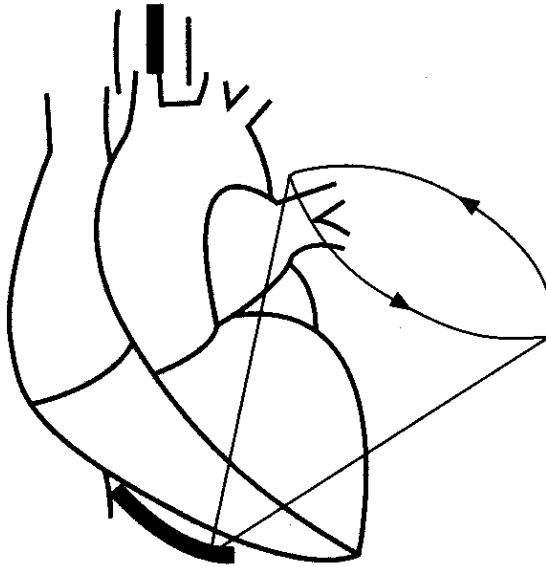
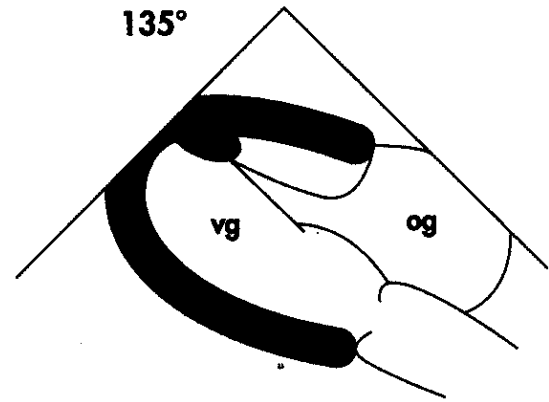
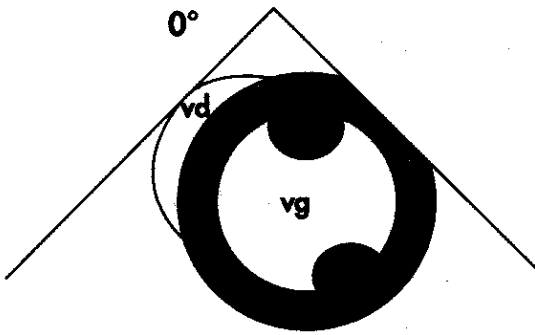
ETO bi-dimensionnelle valve mitrale

- SEGMENTATION MITRALE

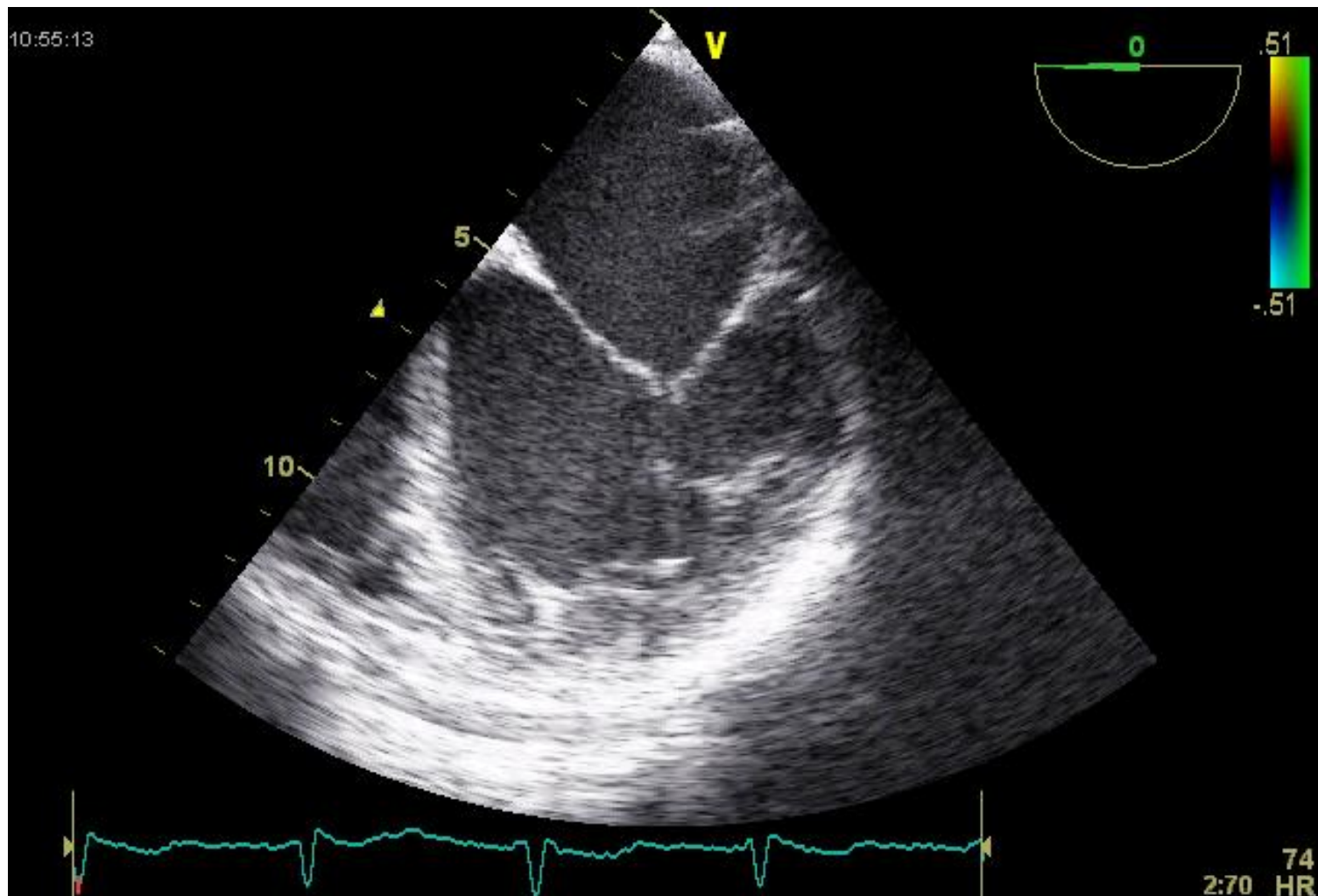


Coupe trans-gastrique

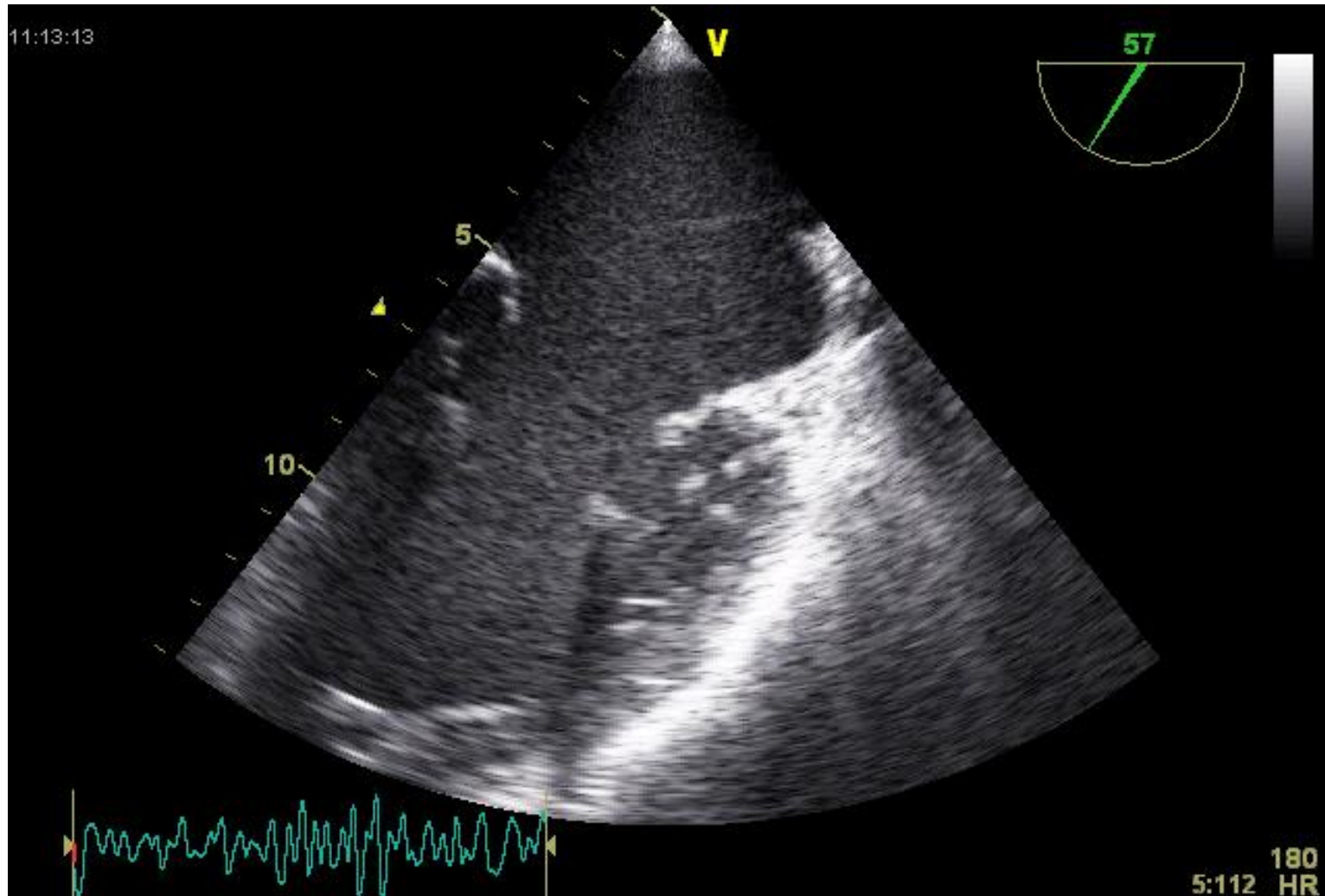




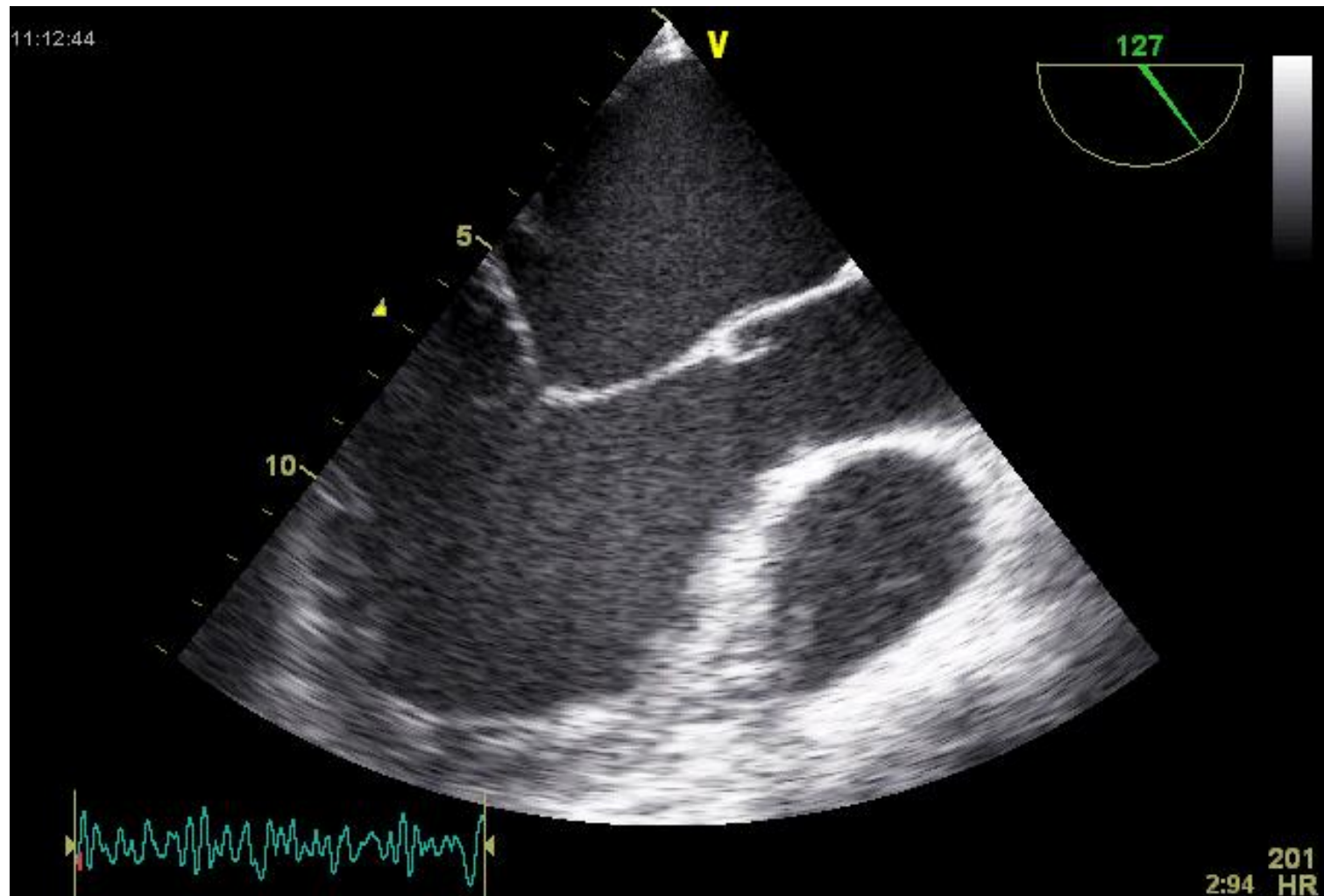
0°



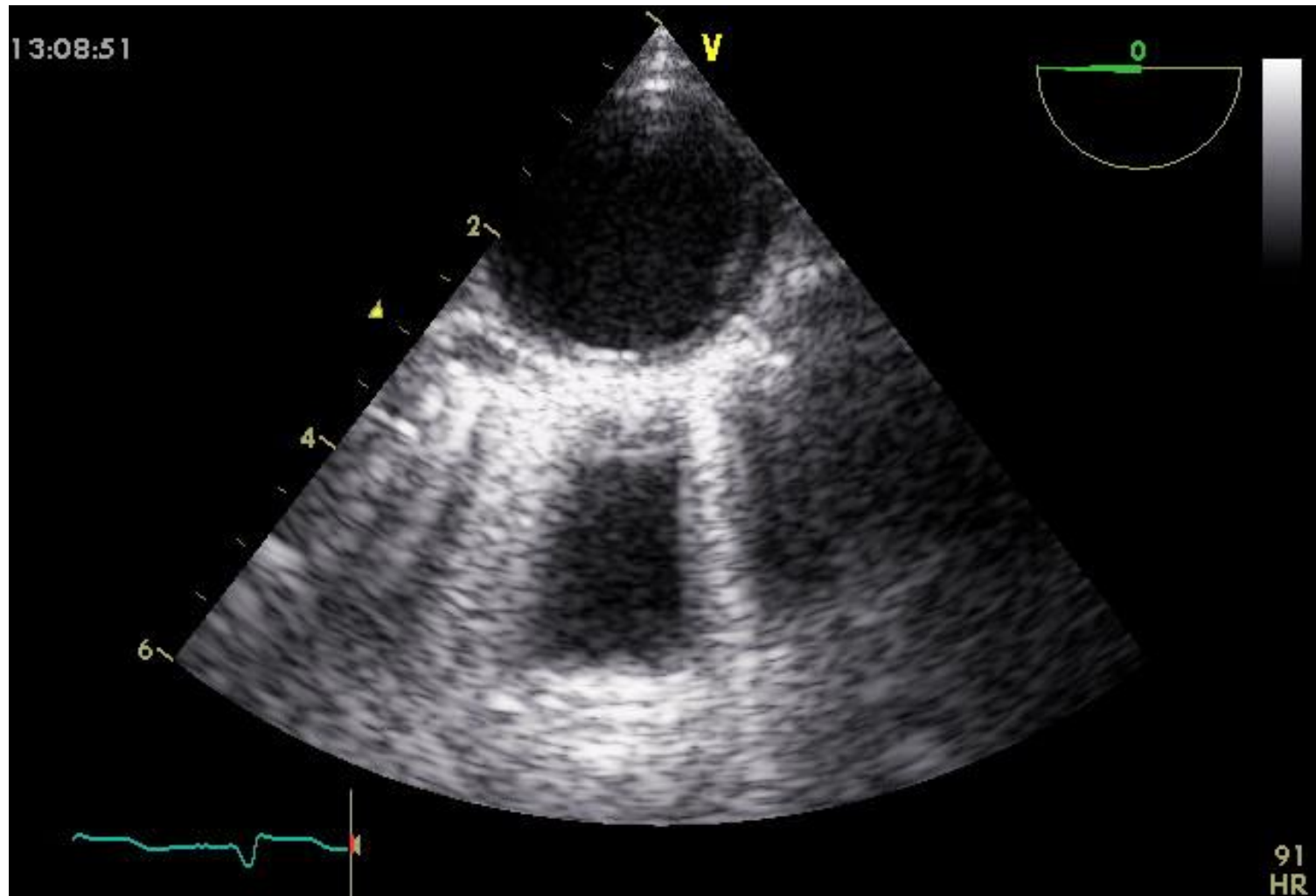
60-90° : commissures



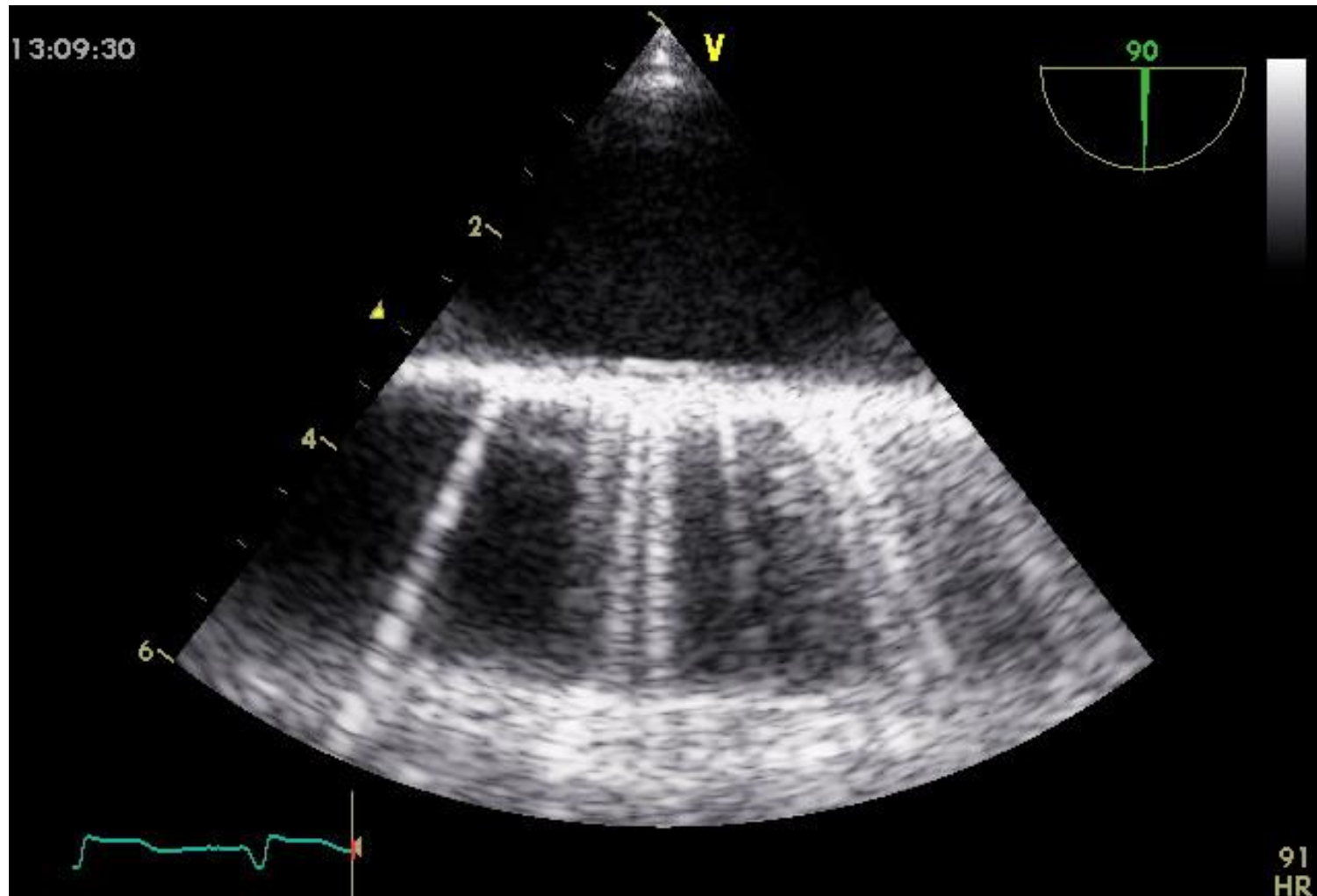
120° : A2 – P2



Aorte thoracique descendante



Aorte horizontale



APPORT DE L'ETO 3D

23330820121010

X7-2t/Adulte

CI 12Hz
18cm

2D

79%

C 50

P Arrêt

Gén

Coul

59%

4.4MHz

FP Haut

Moy

0 143 180



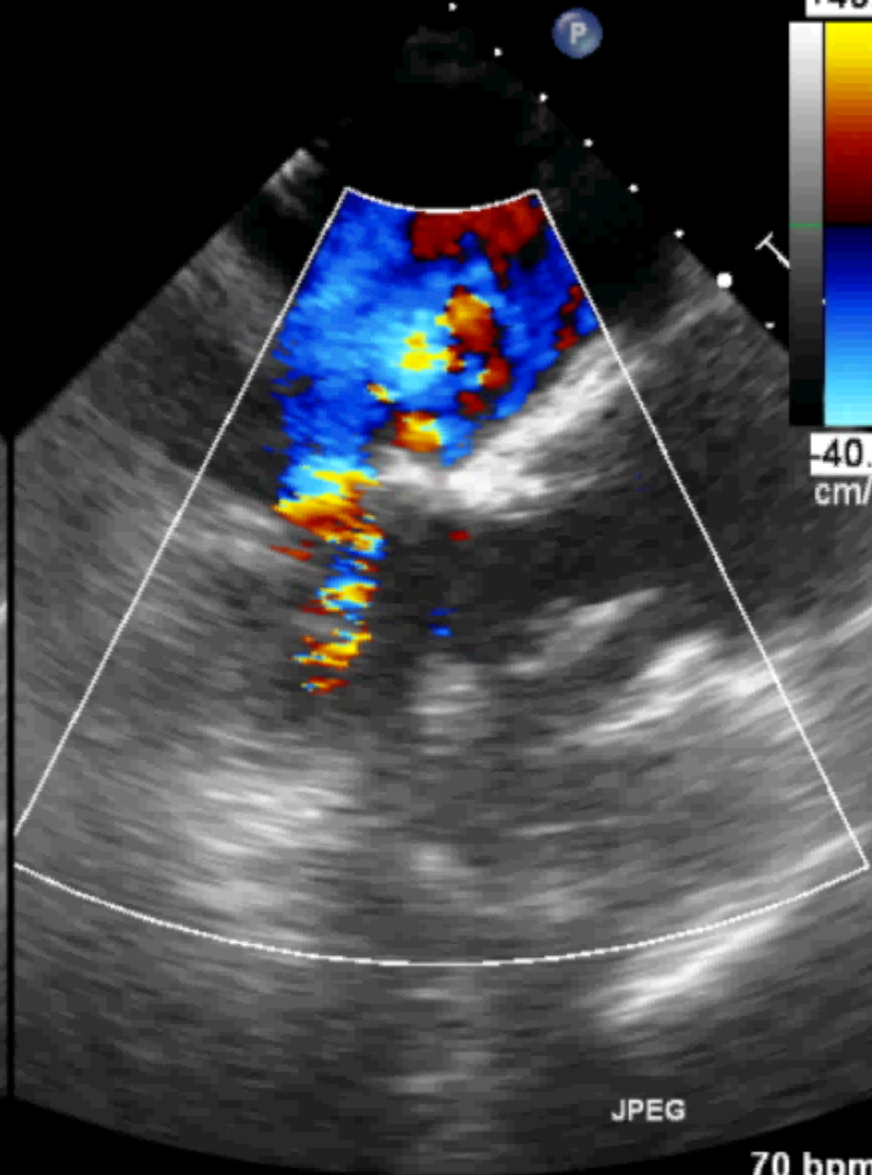
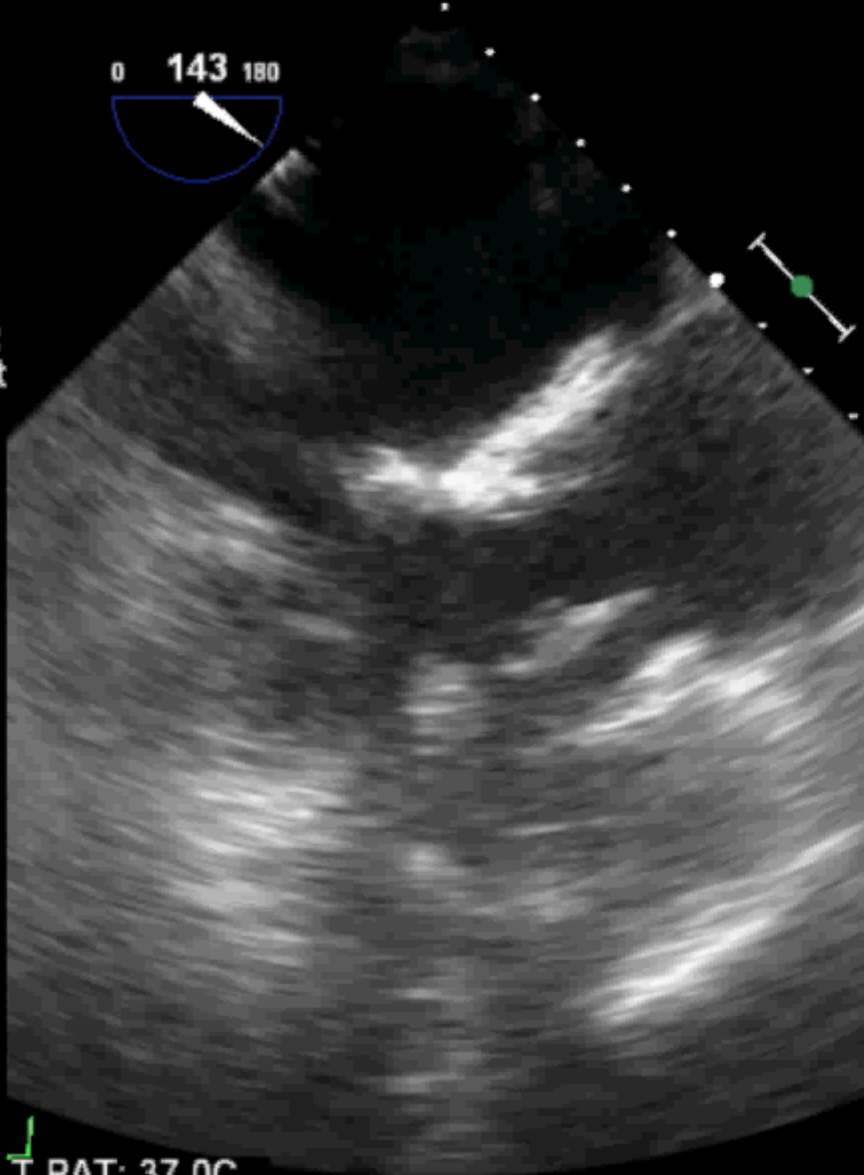
C4 C4

+40.5



-40.5

cm/s



JPEG

70 bpm

T PAT: 37.0C
T ETO: 39.7C



18071520120706

X7-2t/ETO

CI 4Hz
16cm

Battem. 3D 1

C4

3D
3D 47%
3D 40dB



JPEG

T PAT: 37.0C
T ETO: 39.9C

70 bpm

23330820121010

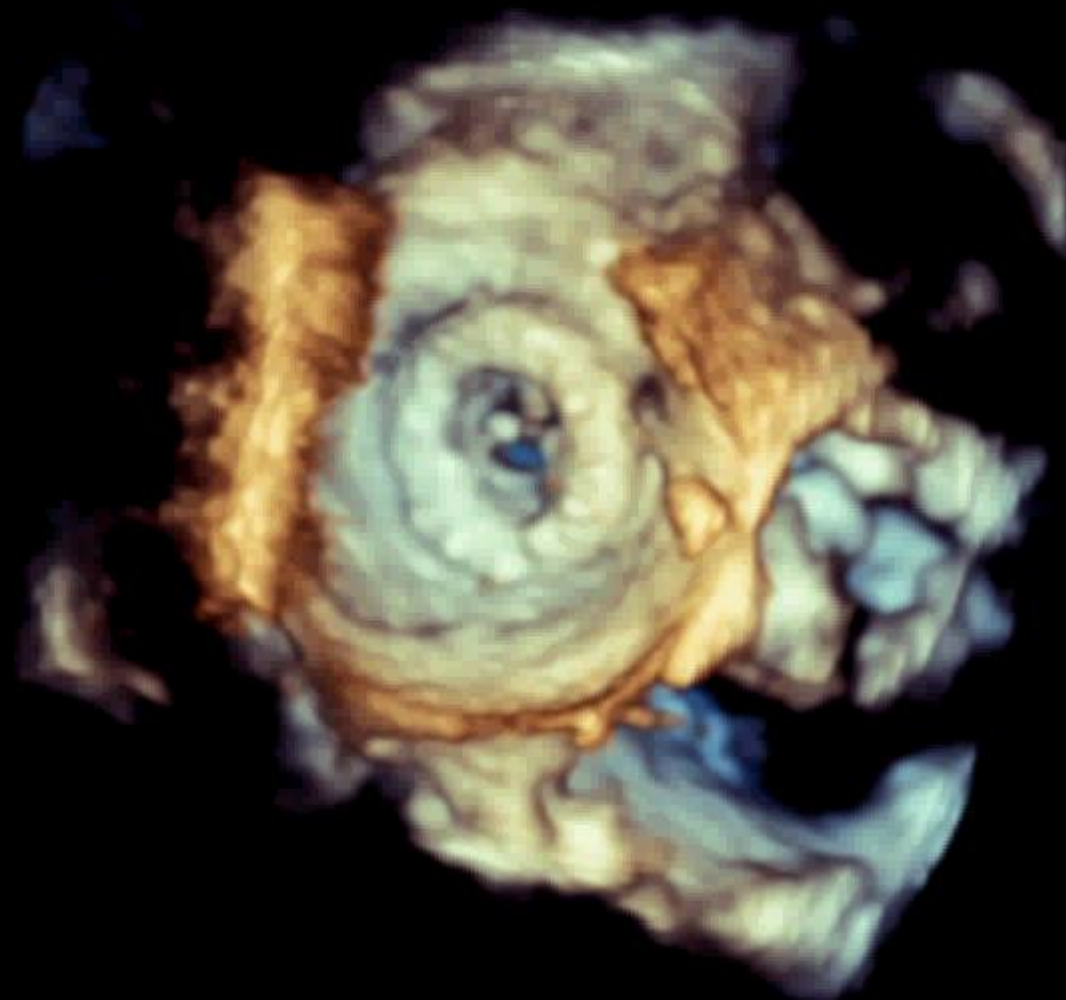
X7-2t/Adulte

CI 5Hz
13cm

Battem. 3D 1

C4

3D
3D 47%
3D 40dB



JPEG

T PAT: 37.0C
T ETO: 40.0C

59 bpm

PHILIPS

PAJAUD, ANDRE

10/10/2012

10:07:21

ITm0.2 IM 0.5

JPEG CR 18:1

23330820121010

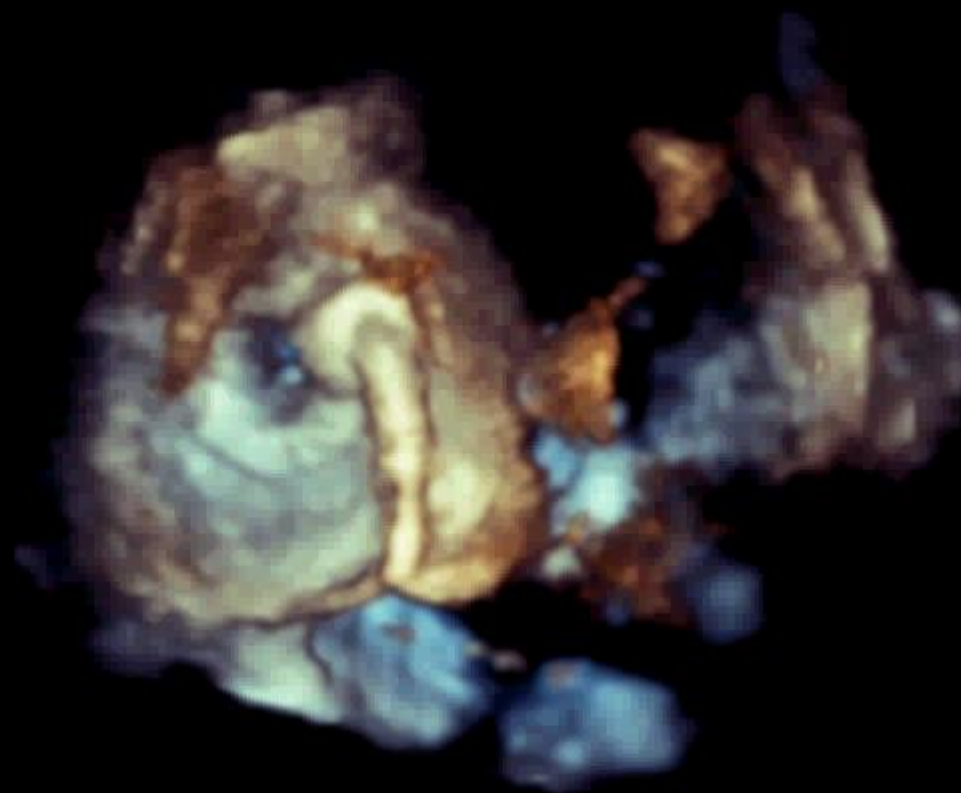
X7-2t/Adulte

CI 4Hz
14cm

Battem. 3D 1

C4

3D
3D 47%
3D 40dB



JPEG

T PAT: 37.0C
T ETO: 39.6C

70 bpm

23330820121010

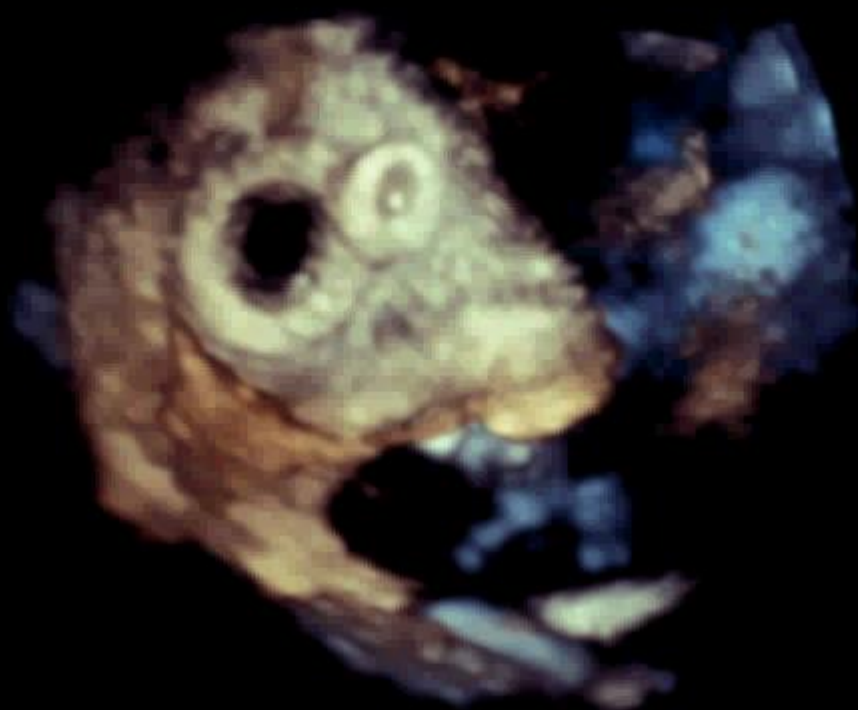
X7-2t/Adulte

CI 4Hz
14cm

Battem. 3D 1

C4

3D
3D 47%
3D 40dB



JPEG

T PAT: 37.0C
T ETO: 39.4C

70 bpm

23330820121010

X7-2t/Adulte

CI 12Hz
20cm

2D

78%

C 50

P Arrêt

Gén

Coul

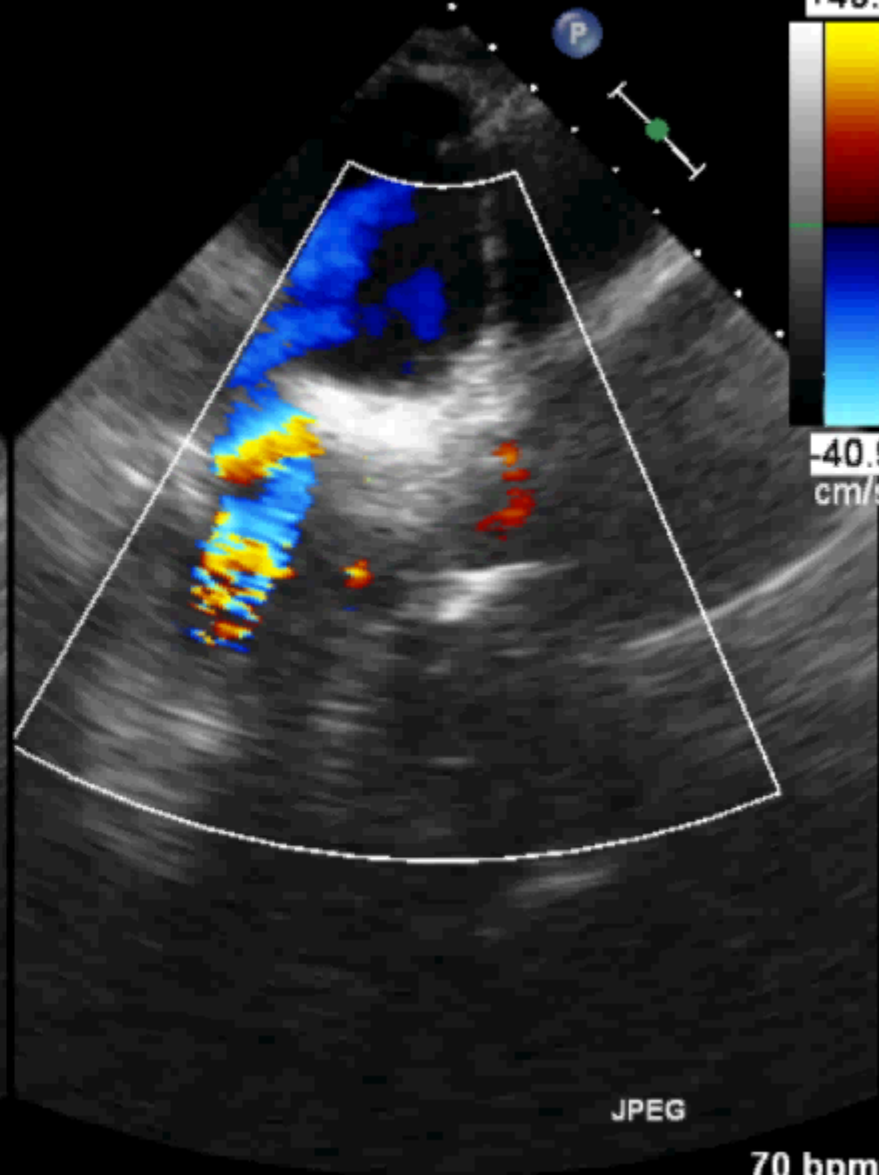
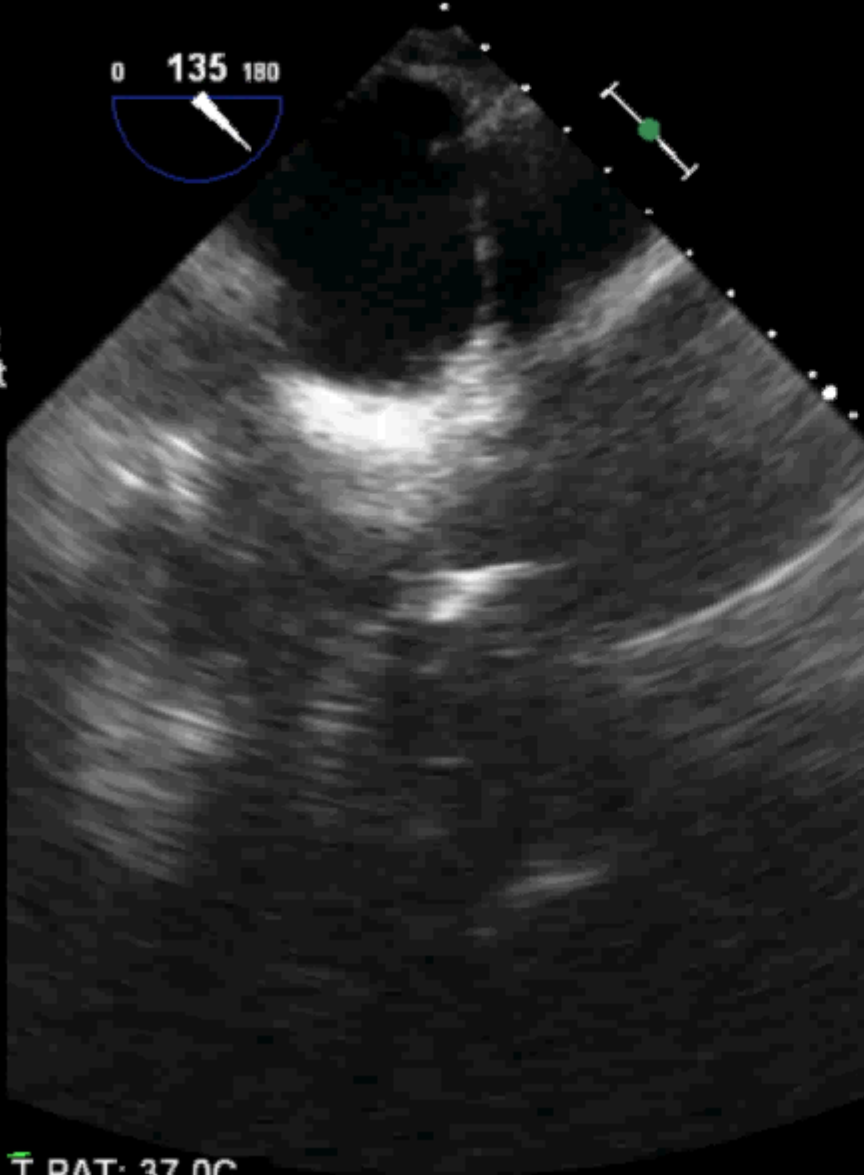
59%

4.4MHz

FP Haut

Moy

0 135 180



C4 C4

+40.9



-40.9

cm/s

JPEG

70 bpm

T PAT: 37.0C

T ETO: 39.5C



55061520121102

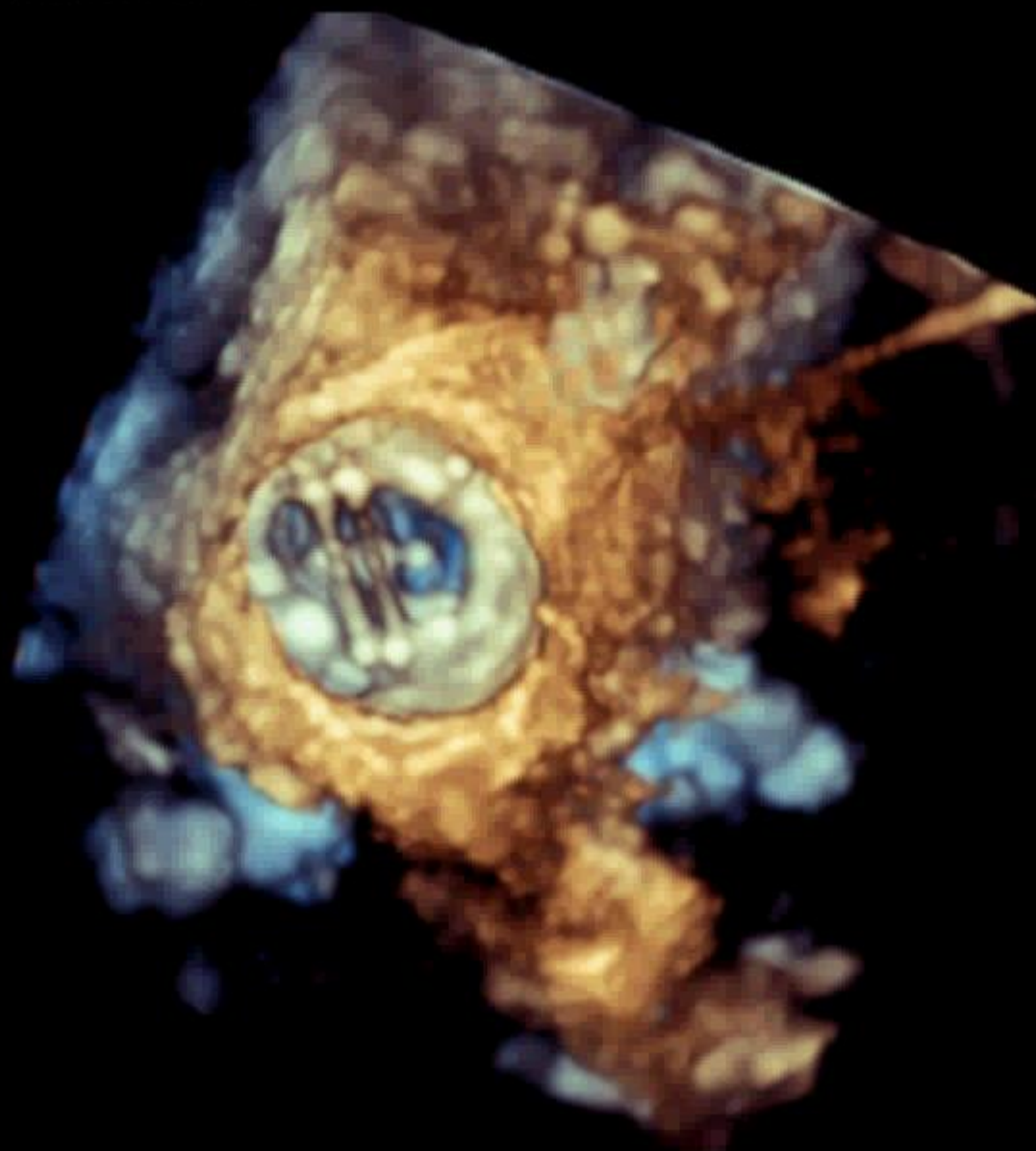
X7-2t/ETO

CI 4Hz
8.9cm

Battem. 3D 1

C4

3D
3D 47%
3D 40dB



JPEG

T PAT: 37.0C
T ETO: 40.3C

102 bpm

24331120121010

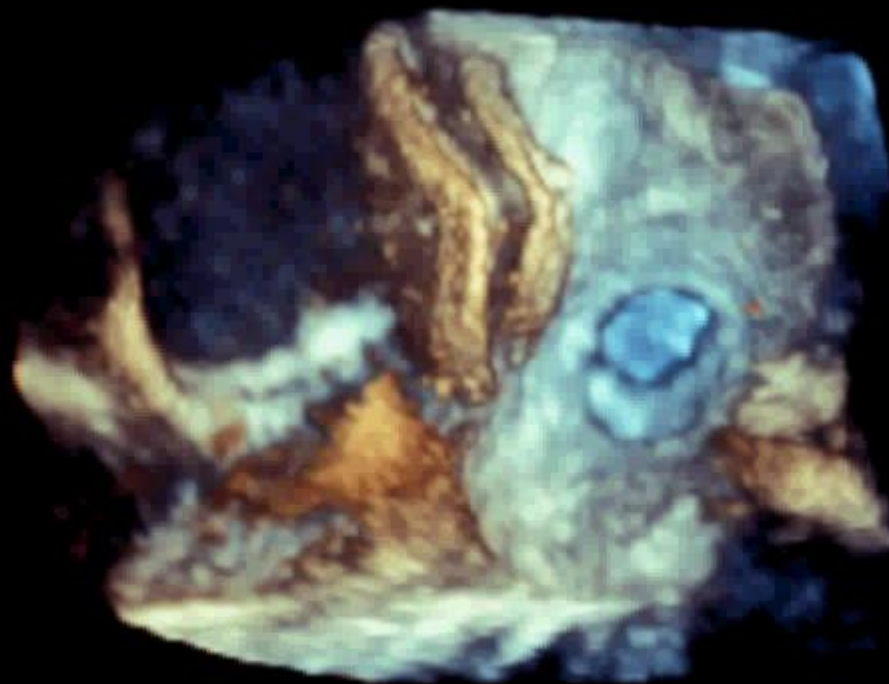
X7-2t/ETO

CI 5Hz
6.8cm

Battem. 3D 1

C4

3D
3D 47%
3D 40dB



JPEG

T PAT: 37.0C
T ETO: 38.2C

*** bpm